

EPA Jacket 67619-21

Vol.1

Explore Registrations

Reg Number: 67619-ER Reg. Type: Product Registration - Section 3 Status: Under Review (10-Mar-2009)
Name: CARB <View Registration Details>

(No New Receipts)

S:	Submission Type	OPP Rec'd Date	Resubmission	Description

...Decisions...

- Data Requirements
 - D: Pending; 407020; 67619-ER; A540; NEW PRO

Decision Sequence: 407020

Action: A540 NEW PRODUCT;NON-FAST TRACK;FIFRA SEC. 2(M)

Number: 67619-ER Original Decision:

Name: CARB

Decision Status: PENDING (10-Mar-2009)

Organization Owner: AD / RMB2

Team Owner: RM 34

FFS Start Date: 30-Mar-2009 Received by Risk Manager:

Due Date: 30-Jul-2009 FFS Amt Expected: \$4,410

Negotiated Due Date: FFS Amt Refunded:

FFS Amt Received: \$4,410

Comments:



PAID

ISB'S Front-end PRIA Completeness Screen

Draft 3; 10/25/07

EPA Receipt Date: MAR - 9 2009		EPA Reg. Number: 67619-ER		
	Check List Item	Yes	No	N/A
1	Has the PRIA Fee been Paid ; is a copy of the check or Pay.gov receipt included in the Submission Package?	X		
2	Is an Application Form (EPA Form 8570-1) Included in the Submission Package, is it completely filled out and signed including package type?	X		
3	Is a Confidential Statement of Formula (EPA Form 8570-29) Included in the Submission Package, is it completely filled out and signed (boxes 1-21)?	X		
4	Is a Formulator's Exemption Statement (EPA Form 8570-27) Included in the Submission Package?	X		
5	Is a Certification with Respect to Citation of Data (EPA Form 8570-34) Included in the Submission Package?	X		
6	Is a Data Matrix (EPA Form 8570-35) Included in the Submission Package?	X		
7	Is a Label Included in the Submission Package?	X		
8	Are Data Included in the Submission Package?	X		
9	Is the Submission an Amendment?		X	

Material Sent for Data Extraction

Reg. # 67619-21

Description: _____

☒ Material(s) Sent to Data Extraction Contractors:

☒ New Stamped Label Dated 10/6/2011

☐ Notification Dated _____

☐ New CSF(s) Dated _____

☐ Other: _____

☒ Decision #: 452605

☐ Other Action/Comments: _____

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer: Stacey Grigsby

Phone: _____ Division: AD

Date: 10/13/2011



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OCT - 6 2011

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Ms. J. Evelyn Lawson
Clorox Professional Products Company
C/o PS&RC; P. O. 493
Pleasanton, CA 94566-0803

Subject: Carb
EPA Registration Number: 67619-21
Application Date: May 17, 2011
Application Receipt: May 18, 2011

Dear Ms. Lawson:

The efficacy study, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable.

Proposed Amendment

- Addition of a new alternate formulation A04
- Addition of new fragrance to basic and alternate formulations A01-A04
- Addition of website, alternate establishment number, and specific instructions for HIV, HBV, and HCV

Data Summary

Data Requirement	Means of Support	Status
AOAC Germicidal Spray - <i>P. aeruginosa</i> , <i>S. aureus</i> , <i>S. enterica</i>	Submitted study, MRID 484838-01	Acceptable -RTU at 2.5 minutes in 5% soil.
Virucidal Efficacy - Rhinovirus type 39	Submitted study, MRID 484838-01	Acceptable -RTU at 20 seconds in 5% soil.
Virucidal Efficacy - Avian Influenza (H1N1)	Submitted study, MRID 484838-01	Acceptable -RTU at 30 seconds in 5% soil.
Initial Virucidal Efficacy - BVDV	Submitted study, MRID 484838-01	Acceptable -RTU at 30 seconds in 5% soil.
Confirmatory Virucidal Efficacy - BVDV	Submitted study, MRID 484838-01	Acceptable -RTU at 30 seconds in 5% soil.
Virucidal Efficacy - Poliovirus Type 1	Submitted study, MRID 484838-01	Acceptable -RTU at 30 seconds in 5% soil.

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

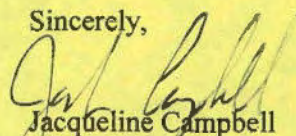
General Comments

The Confidential Statements of Formula for the basic and alternate formulations A01 – A04 dated 5/16/2011 are acceptable. They are in compliance with PR Notice 91-2 and in agreement with the label.

A stamped accepted label is enclosed for your records. Submit a final printed label before selling or distributing bearing the revised labeling.

Should you have any questions regarding this letter, please contact me by telephone at (703) 308-6416 or by email at Campbell-mcfarlane.jacqueline@epa.gov or Killian Swift by telephone at (703)308-6346 or by email at swift.killian@epa.gov.

Sincerely,



Jacqueline Campbell
Product Manager (34)
Regulatory Management Branch II
Antimicrobials Division (7510P)

Enclosure: Stamped label

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

CARB

ACTIVE INGREDIENTS:

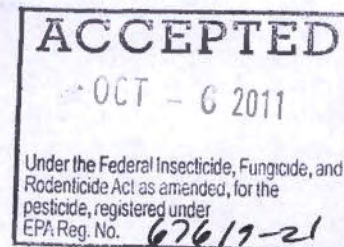
Octyl decyl dimethyl ammonium chloride	0.1890%
Dioctyl dimethyl ammonium chloride	0.0945%
Didecyl dimethyl ammonium chloride	0.0945%
Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chlorides	0.2520%
Ethanol	58.0600%
OTHER INGREDIENTS†	41.3100%
TOTAL:	100.0000%

† This product contains sodium nitrite

KEEP OUT OF REACH OF CHILDREN

WARNING: See back panel for additional
precautionary statements.

NET WT. _____



This product must not result in the direct or indirect contamination of food products.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eye wear (safety glasses). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. If skin contact with product occurs, wash thoroughly with soap and water, especially prior to food handling and preparation. Remove or cover aquariums and cages before use.

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor for further treatment advice. Have the product container with you when calling a poison control center or doctor or going for treatment. Questions? Call 1-888-797-7225.

PHYSICAL HAZARDS: Flammable: Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130° Fahrenheit may cause bursting.

(Residential Use)

STORAGE AND DISPOSAL:

Store at temperatures below 130°F in a locked storage area inaccessible to children and persons unfamiliar with its use. **DO NOT PUNCTURE OR INCINERATE!** Offer for recycling; if not available, discard empty container in trash. If partially filled: Call your local solid waste agency for disposal instructions.

(Commercial/Institutional/Industrial Use)

STORAGE AND DISPOSAL:

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store at temperatures below 130° F in a locked storage area inaccessible to children and persons unfamiliar with its use.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling: **DO NOT PUNCTURE OR INCINERATE!** Offer for recycling; if not available, discard in trash. If partially filled: Call your local solid waste agency for disposal instructions.

Questions? Comments? Call toll-free 1-888-797-7225

www.cloroxprofessional.com

A list of this product's ingredients is available at www.CloroxCSR.com

Mfd. for Clorox Professional Products Company

1221 Broadway, Oakland, CA 94612

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EPA Reg. No. 67619-21

Preferred language or label generated for one location only or if no plant code available (note: styles cannot be mixed)

EPA Est. No. 58996-MO-1 -or- 5813-ARG-1

Language similar to the following is needed if more than one

EPA Est. No. listed above

Actual EPA Est. No. in code above -or- below.

EPA Est. No. language: all Est. Nos. listed in this format must have plant code in parentheses if product will be repackaged

EPA Est. No. 58996-MO-1 (AU); 5813-GA-2 (VG); 71681-GA-1 (JQ),
IL-1 (GU), IL-2 (24); 81368-OH-1 (28)

Made in [the] USA -or-
Made in Argentina
Contains no phosphorus
Contains no CFCs or other
ozone depleting substances
Federal Regulations Prohibit
CFC Propellants in Aerosols



DISINFECTION

To Disinfect: Spray 6 to 10 inches from precleaned surface for 3-4 seconds -or- until thoroughly wet. Surface must remain wet for 10 minutes. A potable water rinse is required for food contact surfaces.

Do not use on glasses, dishes, or utensils.

Claims:

- Antibacterial [spray] [action] [formula]
- An effective disinfectant for use in the kitchen, bathroom, bedroom, and other areas
- Antibacterial [Formula]
- Antibacterial Formula Disinfects
- Antibacterial -or- Germicidal [on hard, nonporous surfaces] [for Kitchens and Bathrooms]
- Antibacterial -or- Germicidal [Formula]
- Antimicrobial
- Bactericidal
- [Bathroom] [Restroom] [Kitchen] disinfectant
- Broad Spectrum Hospital Disinfectant
- Disinfects & [and] Deodorizes
- Disinfectant
- Disinfectant [for Institutional Use]
- Disinfecting formula
- Disinfecting spray
- Disinfect[s]
- Disinfects [Germs]
- Disinfects [washable] kitchen surfaces including killing [99.9% of] germs -and/or- bacteria -and/or- viruses -and/or- fungi
- Easily disinfect
- For [Hospital] [Commercial] [Industrial] & Institutional Use
- For Healthcare Use
- For Hospital Use
- Fungicidal -or- Antifungal
- Germicidal
- Hospital disinfectant
- Kills 99.9% of Bacteria
- Kills [99.9% of] Germs
- Kills [99.9% of] [kitchen] [bathroom] bacteria
- Kills [99.9% of] *see organism list*
- Kills Avian Influenza virus**
- Kills bacteria -or- germs -or- viruses on washable kitchen -and/or- bathroom surfaces and fixtures
- Kills bacteria -or- viruses
- Kills Flu Virus[†] [Influenza A virus]
- Kills [household] bacteria [without bleaching]
- Kills Influenza A virus [the virus that causes the common flu]
- Kills [Salmonella enterica] [kitchen bacteria]
- Leaves hard, nonporous surfaces sanitary -or- disinfected in 10 minutes
- Multi-purpose disinfectant [spray]
- Provides broad spectrum kill of Gram negative and Gram positive microorganisms
- Pseudomonacidal
- Ready to use disinfectant
- Ready to use formula provides disinfecting and deodorizing
- Spray
- Staphylocidal
- [This product] deodorizes and disinfects hard, nonporous surfaces -or- *list any use sites: Tables 1-5*
- [This product] is a disinfectant that disinfects, and deodorizes in one labor saving step
- This product is a Broad Spectrum disinfectant, bactericidal according to the AOAC Germicidal Spray Products test method
- This product is effective against the pathogenic fungi Trichophyton mentagrophytes (Athlete's Foot Fungus) when used as directed for disinfection with a contact time of 1 minute on hard, nonporous surfaces in bathrooms, including shower stalls, floors, and glazed bathroom tiles
- [This product] kills 99.9% of bacteria & viruses
- [This product] kills bacteria, viruses and mold
- [This product] kills germs throughout the kitchen -or- restaurant -or- establishment -or- building on hard, nonporous surfaces plus controls mold growth
- This product meets AOAC Germicidal Spray Product Test efficacy standards for hospital disinfectants
- [This product] will disinfect hard, nonporous surfaces [*insert surface[s] from Tables 1-5*] [*use site[s] from Tables 1-5*]
- Use [this product] to disinfect nonporous [*insert use sites/surfaces from Tables 1-5*]. [Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (120°), and allow to air dry.
- Virucidal†† -or- Antiviral††
- [Virucidal††] [Bactericidal] [Pseudomonacidal] [Fungicidal] [Deodorizer]

**Kills Avian Influenza virus on precleaned hard, nonporous surfaces

†Influenza A virus

Germicidal against the following [organisms]: -or- [This product] kills the following [organisms]: -or- Disinfects against the following [organisms] -and/or- Fungicidal -and/or- Virucidal††:

Organisms:

See organism list

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

[Shake well.] For use on non-food contact surfaces only. For surfaces that may come in contact with food [such as countertops and high chairs], a potable water rinse is required. Do not use on glassware, utensils or dishes.

GENERAL CLAIMS

New!! [***& Improved***] to be used as a claim descriptor only for the first 6 months of product on shelf

Claims:

- Do not use on [polished] wood, painted surfaces, acrylic plastics
- Bleach-free
- Clear formula
- Color fast
- Commercial Solutions®
- Contains no abrasives, harsh acids
- Contains no bleach
- Convenient
- Does not contain bleach
- Easy to use
- Eliminates -or- Removes [kitchen] [bathroom] odors
- For Professional Use
- For use in homes
- For use on both white and colored hard surfaces
- Formula for bathrooms -and/or- kitchens
- Great for everyday use [in the kitchen -or- bathroom]
- Great for Kitchen[s] -and/or- Bathroom[s] [too]
- [Great] For Everyday Use [in Kitchens and Bathrooms]
- Great in the Kitchen and Bathroom
- Institutional [size]
- Kitchen formula
- Made for kitchen surfaces and odors
- Multi-Surface
- No mixing
- No Unpleasant Odors
- Non-abrasive formula [will not scratch surfaces]
- Non-Chlorine Formula: Will not bleach clothing or colored surfaces
- Prevents [odors]
- Professional size
- Will not harm most hard, nonporous surfaces
- Will not harm Special -or- Premium Surfaces

DEODORIZATION

To deodorize: Spray on precleaned surfaces as needed.

Claims:

- Deodorizes -and/or- disinfects -or- helps deodorize
- Deodorizer [for Institutional Use]
- Deodorizes food odors [like garlic and onion] [left behind on kitchen surfaces] [after cooking]
- Eliminates mold odor[s]
- Eliminates odors caused by bacteria [and non-fresh foods]
- Eliminates -or- reduces [kitchen] odors [in the trash can -or- recycling bin odors -or- smells] [caused by ~~germs~~ or bacteria]
- Eliminates pet odors caused by ~~germs~~ or bacteria
- Kills odor causing bacteria in the kitchen -or- bathroom
- Kills odor causing bacteria ~~or germs~~
- Kills -or- eliminates bacteria that cause [bad] odors
- [This product] deodorizes areas that are hard to keep fresh smelling, in the [insert use sites from Tables 1-5]
- [This product] will deodorize hard, nonporous surfaces [including [insert surface[s] from Tables 1-5] [use site[s] from Tables 1-5] [where obnoxious odors may develop]
- [This product] will deodorize surfaces in [insert site[s] from Tables 1-5]
- Removes -or- Eliminates odors

DYE & SCENT DESCRIPTORS AND CLAIMS:

- Contains no [dyes] [added colors]
- Dye-Free
- Free of Added -and/or- Dyes -and/or- Colors
- Free -or- clear of dyes
- Fresh scent formula
- Fresh Scented
- Has a fresh scent -or- fragrance -or- smell

MOLD

To control and prevent the growth of mold:

Spray precleaned surface until thoroughly wet. Surface must remain wet for 1 minute before wiping or air drying. Respray product as necessary for ongoing -or- continual control.

Claims:

- Controls [and] [prevents] mold growth
- Kills [and prevents the growth of] mold
- This product inhibits growth of mold

Organism:

1 minute contact time:

Trichophyton mentagrophytes [ATCC 9533]

Pandemic 2009 H1N1 Influenza A virus

Standard 2009 H1N1 Claims:

- Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by influenza A virus. This product (***Product Name***) is a broad-spectrum hard surface disinfectant that has been shown to be effective against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.
- This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- Kills Pandemic 2009 H1N1 influenza A virus (formerly called swine flu).
- Kills Pandemic 2009 H1N1 influenza A virus.

Alternate 2009 H1N1 Claims:

- Kills [2009] H1N1 [Flu Virus]
- Kills Germs -and/or- Flu Viruses [including [2009] H1N1]
- Kills [99.9%] of Germs including [2009] H1N1 [Flu Virus]
- Effective against [2009] H1N1 [Flu Virus]

DISINFECTION continued

Organisms:

[This product] kills germs: -or- Kills -or- Disinfects against the following bacteria, viruses, fungi:

ORGANISMS:

Bacteria:	
3 minute contact time:	
Acinetobacter baumannii	[ATCC 15308]
Burkholderia cepacia	[ATCC 25416]
Campylobacter jejuni	[ATCC 29428]
Carbapenem-Resistant Klebsiella pneumoniae	[ATCC BAA-1705]
Community-Associated Methicillin-Resistant Staphylococcus aureus (CA-MRSA [Genotype] 300)	[Genotype 300]
Community-Associated Methicillin-Resistant Staphylococcus aureus (CA-MRSA [Genotype] 400)	[Genotype 400] [Clinical Isolate 08005]
Corynebacterium diphtheriae	[ATCC 11913]
Enterobacter aerogenes	[ATCC 13048]
Enterobacter cloacae	[ATCC 35549]
Enterococcus faecalis	[ATCC 29212]
Escherichia coli (E.coli)	[ATCC 11229]
Escherichia coli O157:H7	[ATCC 35150]
ESBL (Extended Spectrum Beta Lactamase) producing Escherichia coli [(ESBL producing E. coli)]	[ATCC BAA-196]
Extended Spectrum Beta Lactamase producing Klebsiella pneumoniae [(ESBL producing Klebsiella pneumoniae)]	[ATCC 700603]
Klebsiella oxytoca	[ATCC 43165]
Klebsiella pneumoniae	[ATCC 4352]
Legionella pneumophila	[ATCC 33153]
Listeria monocytogenes	[ATCC 19111]
Methicillin-Resistant Staphylococcus aureus (MRSA 100)	[Genotype USA 100 NARSA NRS382]
Methicillin-Resistant Staphylococcus aureus (MRSA 200)	[Genotype USA 200 NARSA NRS383]
Methicillin-Resistant Staphylococcus aureus	[ATCC 33591]
Multidrug-Resistant Klebsiella pneumoniae	[ATCC 51503]
Penicillin-Resistant Streptococcus pneumoniae	[ATCC 700671]
Proteus mirabilis	[ATCC 7002]
Proteus vulgaris	[ATCC 27973]
Pseudomonas aeruginosa	[ATCC 15442]
Pseudomonas putida	[ATCC 12633]
Salmonella enterica	[ATCC 10708]
Salmonella enterica [serovar – paratyphi B]	[ATCC 8759]
Salmonella enteritidis	[ATCC 13076]
Salmonella typhi	[ATCC 6539]
Serratia marcescens	[ATCC 14756]
Shigella dysenteriae	[ATCC 13313]
Staphylococcus aureus	[ATCC 6538]
Stenotrophomonas maltophilia	[ATCC 13637]
Streptococcus pneumoniae	[ATCC 33400]
Streptococcus pyogenes	[ATCC 19615]
Vancomycin-Resistant Enterococcus faecalis (VRE)	[ATCC 51299]
5 minute contact time:	
Mycobacterium bovis (BCG) -or- TB	

DISINFECTION continued

Fungi:

1 minute contact time:

Candida albicans	[ATCC 10231]
Candida glabrata	[ATCC 2001]
Trichophyton mentagrophytes	[ATCC 9533]

Viruses (non-enveloped):

30 second contact time:

††Rhinovirus 39	[ATCC VR-340]
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10 minute contact time:

††Adenovirus type 2	[ATCC VR-846]
††Adenovirus type 14	[ATCC VR-15]
††Coxsackievirus B3	[ATCC VR-30]
††Echovirus type 12	[ATCC VR-42]
††Feline calicivirus (surrogate for Norovirus)	[ATCC VR-782]
††Hepatitis A virus	
††Poliovirus [type 1] [Polio]	[ATCC VR-1562]
††Rotavirus	[ATCC VR-899]

Viruses (enveloped):

30 second contact time:

††Avian Influenza virus	[H5N1 NIBRG-14]
††Bovine viral diarrhea virus (surrogate for Human Hepatitis C virus) [(HCV)]	
††Cytomegalovirus	[ATCC VR-538 [strain AD-169]]
††Duck Hepatitis B virus (DHBV) (surrogate for Human Hepatitis B virus) [(HBV)]	
††Hantavirus [(Prospect Hill virus)]	
††Herpes Simplex Virus type 1	[ATCC VR-260]
††Herpes Simplex Virus type 2	[ATCC VR-734]
††Human coronavirus	[ATCC VR-740 [strain 229-E]]
††Human Immunodeficiency virus (HIV) type 1 [(HIV-1)]	
††Human Influenza A virus	[A/PR/8/34 (H1N1)]
††Human Influenza B virus	[b/Lee40]
††Respiratory Syncytial Virus (RSV)	[ATCC VR-26]

10 minute contact time:

††SARS-Associated Coronavirus (SARS)	[CDC strain 200300592]
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Specific instructions for HIV-1, HBV and HCV:

To kill HIV-1, HBV and HCV:

This product kills HIV-1, HBV and HCV on precleaned environmental surfaces/objects previously soiled with blood/body fluids in health care settings (e.g. hospitals, nursing homes) or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1)(associated with AIDS), Human Hepatitis B Virus (HBV) and Human Hepatitis C Virus (HCV).

Special instructions for using this product to clean and decontaminate against HIV-1 on surfaces/objects soiled with blood/body fluids:

Personal protection: When handling items soiled with blood or body fluids, use disposable latex gloves, gowns, masks and eye coverings.

Cleaning procedure: Blood and other body fluids must be thoroughly cleaned from surfaces and other objects before applying this product.

Disposal of infectious materials: Use disposable latex gloves, gowns, masks and eye coverings. Blood and other body fluids must be autoclaved and disposed of according to local regulations for infectious waste disposal.

Contact time: Spray -or- flood surface. Let stand 30 seconds. [Rinse -or- wipe clean.] [Allow to air dry.]

ENVIRONMENTAL TEXT:

[Important Facts about this product:]

- This can is made from an average of 25% recycled steel (10% post-consumer)

- Encourage your local authorities to establish a program to recycle this can
- [Please] Recycle empty container.

USE SITES

Ambulances -or- [Emergency Medical]
 Transport Vehicles
 Anesthesia Rooms -or- Areas
 [Assisted Living -or- Full Care] Nursing
 Homes
 CAT Lab[oratories]
 Central Service Areas
 Central Supply Rooms -or- Areas
 Critical Care Units -or- CCUs
 Doctor's Offices
 Donation Centers [blood] [plasma] [semen]
 [milk] [apheresis]
 Emergency Rooms -or- ERs
 Eye Surgical Centers
 Health Care Settings -or- Facilities
 Home Health Care [Settings]
 Hospices

TABLE 1 Medical:

Hospitals
 [Hospital] Kitchens
 Intensive Care Units -or- ICU[s] [areas]
 Laboratories
 Laundry Rooms
 Long Term Care Facilities
 [Medical] Clinics [Facilities]
 Medical Facilities
 Medical -or- Physician's -or- Doctor's
 Offices
 Newborn -or- Neonatal [Nurseries]
 [Intensive Care] Units [NICU]
 Nursing Homes
 Nursing -or- Nurses' Stations
 Operating Rooms
 Ophthalmic Offices
 Orthopedics

Outpatient [Surgical Centers (OPSC)]
 [Clinics] [Facilities]
 Patient Areas
 Patient Restrooms
 Patient Rooms
 [Pediatric] Examination Rooms -or- Areas
 Pediatric Intensive Care Units [PICU]
 Pharmacies
 Physicians' Offices
 Physical Therapy Rooms -or- Areas
 Psychiatric Facilities
 Public Areas
 Radiology -or- X-Ray Rooms -or- Areas
 Recovery Rooms
 Rehabilitation Centers
 Surgery Rooms -or- Operating Rooms
 -or- ORs
 Waiting Rooms -or- Waiting Areas

HARD, NONPOROUS SURFACES ASSOCIATED WITH THE FOLLOWING

anesthesia machines
 apheresis machines
 autoclaves
 bathroom doorknob
 bedpans
 bedpan cleaner
 bedrails
 [bedside] commodes
 bedside tables
 blood pressure cuffs
 blood pressure (BP) monitors
 cabinets
 call boxes
 CAT -or- Computerized Axial Tomography
 equipment
 carts
 chairs
 charging stations
 computer peripherals
 computer screens
 computer tables
 cords
 counters
 [crash] [emergency] carts
 diagnostic equipment

docking stations
 edges of privacy curtains
 [exam -or- examination] tables
 external surfaces of [medical] equipment
 -or- [medical] equipment surfaces
 [external] [surfaces of] ultrasound
 transducers [-and/or- probes]
 gurneys
 hard, nonporous hospital -or- medical
 surfaces
 [hospital -or- patient] bed(s) [springs]
 [railings] -or- linings -or- frames
 IV [stands] [pumps] [poles]
 keyboards
 large surfaces
 loupes
 mammography equipment
 medication carts
 mobile workstations
 mouse pads
 MRI -or- Magnetic Resonance Imaging
 equipment
 operating room tables and lights
 operating room light switches
 overbed tables
 paddles
 patient chairs

plastic -or- vinyl mattress covers
 patient monitoring equipment
 patient support and delivery equipment
 phlebotomy trays
 physical therapy (pt) equipment surfaces
 pulse oximeters
 PVC tubing
 reception counters -or- desks -or- areas
 remote controls
 respiratory therapy equipment
 scales
 sequential compression devices
 side rails
 slit lamps
 small surfaces
 spine backboards
 stethoscopes
 stools
 stretchers
 surfaces in and around toilets in patient
 rooms
 toilet handholds
 traction devices
 walls [around toilet] [in patient rooms]
 wash basins
 wheelchairs
 x-ray equipment

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

PERSONAL PROTECTIVE SAFETY EQUIPMENT

face shields
 goggles
 hard hats

protective headgear
 silicone rubber -or- PVC hearing protectors

spectacles
 vinyl covered earmuffs

Use on non-critical surfaces in:

TABLE 2 Dental:

USE SITES

Dental Offices
 Examination Rooms
 Dental Operatories
 Dental -or- Dentists' Offices

SURFACES

amalgamators -and/or- dental curing lights
 dental countertops
 dental operatory surfaces
 dentists' -or- dental chairs

endodontic equipment such as apex locators
 hard, nonporous [environmental] dental
 surfaces
 light lens covers
 pulp testers and motors
 reception counters -or- desks -or- areas

TABLE 3 Veterinary and Farm:

USE SITES

Animal Life Science Laboratories
 Animal [Pet] Housing [Kennels] [Facilities]
 Animal Holding Areas
 [Animal -or- Pet] Grooming Facilities
 Animal Transportation Vehicles
 Breeding Establishments
 Equine Farms

Farms
 Kennels
 Livestock -and/or- Swine -and/or- Poultry
 Facilities
 Pet [Areas] [Quarters]
 Pet Shops -or- Stores
 Small Animal Facilities
 Tack Shops

Veterinary Clinics -or- Facilities
 Veterinary -or- Animal Hospitals
 Veterinary [Offices] [Waiting Rooms]
 Veterinary [Examination Rooms]
 Veterinary [X-ray Rooms]
 Veterinary [Operating Rooms]
 Zoos

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

SURFACES

animal equipment
 around troughs
 automatic feeder exteriors
 empty cages
 external surfaces of [veterinary] equipment

feed rack exteriors
 fountains
 hard, nonporous [environmental] veterinary
 surfaces
 pens

reception counters -or- desks -or- areas
 stalls
 veterinary care surfaces
 watering appliance exteriors

TABLE 4 Food Service:

USE SITES

Banquet Halls
 Bars
 Cafeterias
 Catering Facilities
 Commercial -or- Institutional Kitchens

Delis [Delicatessens]
 Fast Food Chains -or- Restaurants
 Food Preparation and Processing Areas
 Food [Service -or- Processing]
 Establishments
 Food Serving Areas

Other Food Service Establishments
 Restaurants
 School Kitchens

SURFACES

any washable (food and non-food contact)
 surface where disinfection is required
 appliances ~~exteriors~~
 dish racks
 drain boards

~~food cases~~
~~food trays~~
 freezers ~~exteriors~~
 hoods
 microwave[s] {exteriors}
 oven[s] {exteriors}

plastic -or- metal outdoor furniture
 (excluding wood frames and upholstery)
 refrigerator[s] {exteriors}
 salad bar sneeze guards
 stoves -or- stovetops

TABLE 5 Miscellaneous/General:

USE SITES

Airplanes [Airports]
 Ambulances
 Athletic [Recreational] Facilities
 Automobiles
 Barber Shops
 Basements
 Bathrooms
 Bathroom -or- Locker Room
 Facilities
 Beauty Salons
 Bedrooms
 Blood Banks
 Boats
 Bowling Alleys
 Buses
 Butcher Shops
 Cafeterias
 Campers
 Cars
 Churches
 Colleges
 Convenience Stores
 Correctional Facilities
 [Damp] Storage Areas
 Day Care Centers
 Dens
 Dorms
 Dormitories
 Elevators
 Emergency Vehicles
 Factories
 Fast Food Restaurants
 [Food Processing] Plants
 Funeral Homes
 Garages
 [Garbage] [Waste] Storage Areas

Gas Stations
 Grocery Stores
 Gymnasiums -or- Gyms
 Health Club[s] [Facilities]
 Homes
 Home Centers
 Hotels
 Industrial Facilities
 Institutional Kitchens
 [Institutional] Laundromats
 Institutions
 Kennels
 Kitchen[s] [surfaces]
 Laboratories
 Laundromats
 Laundry Rooms
 Lavatories
 Locker Rooms
 Lodging Establishment
 Lounges
 Malls
 [Manufacturing] Plants
 Manufacturing Plants -or- Facilities
 Markets
 Mass Merchandisers, Discount Retailers
 -and/or- General Merchandise Stores
 Military Installations
 Mobile Homes
 Mortuaries
 Motels
 Motor Homes
 Mudrooms
 Nurseries
 Office[s] [Buildings]
 Pet Areas
 Pharmacies

Play Areas -or- Rooms
 Playgrounds
 [Police -and/or- Fire] Vehicles
 Produce Areas
 Public Areas
 Public Facilities
 Public Restrooms
 Public Telephone[s] [Booths]
 Recreational Centers -or- Facilities
 Rental Cars
 Rest Stops
 Restaurants
 Restrooms -or- Restroom Areas
 Retail businesses
 School Buses
 Schools
 Shelters
 Ships
 Shopping Centers
 Shops
 Shower Rooms
 Sports Arenas
 Storage Rooms -or- Areas
 Subways
 Supermarkets
 Toolsheds
 Transportation Terminals
 Trains
 Trolleys
 Universities
 Vacation Homes
 Warehouse Clubs

A potable water rinse is required for food contact surfaces.
 Do not use on glassware, utensils, or dishes.

TABLE 5 Miscellaneous/General: continued

SURFACES

appliance exterior[s] [surfaces]	dressing carts	lockers	stainless steel
appliance -or- cabinet knobs	elevator buttons	[medicine] cabinets	stall doors
baked enamel	exercise machines	metal	staplers
bassinets	exhaust fans	metal blinds	stovetops -or- stoves
[bathroom] fixtures	exterior -or- external toilet surfaces	metal work benches	synthetic marble
[bathroom] [kitchen] faucet[s] [handles]	exterior -or- external urinal surfaces	microwave exterior	tables [tabletops]
[bath]tubs	exterior surfaces of urinals -and/or- toilets	office machinery	[tiled] walls
bed frames	faucets	office -or- bedroom -or- bedside furniture	tires
behind and under counters	fax machine[s] [handles]	other telecommunication equipment surfaces	[toilet [flush]] [telephone] [cabinet]
behind and under sinks	[filing] [medicine] cabinets	outdoor grill exteriors	[dishwasher] [door] handles
boats	fixtures	outdoor -or- patio furniture	toilet -and/or- urinal exterior[s]
booster chairs	floors [around toilets]	oven doors	[surfaces] -or- exterior toilet surfaces toilet[s] [handle]
burner trays	furniture	pet areas -or- surfaces	[rims] [seats] [tops]
cabinets	freezer exteriors	phones	tools
car interiors	garage surfaces	plastic laundry hampers -or- baskets	towel dispensers
carts	garbage -or- trash cans	plastic patio furniture -or- lawn chairs	toy boxes -or- storage bins
chairs	glazed ceramic [restroom surfaces]	plastic shower curtains	trailers
[children's] furniture	glazed [ceramic] tile[s]	plastic surfaces associated with: floors, walls, fixtures, toilets, urinals, sinks, shower rooms and locker rooms	[training] toilets
closets	glazed porcelain [tiling -or- tile]	playground equipment	trash cans -or- compactors
[clothes] [diaper] hampers	[grocery [store] -or- supermarket] carts	playpens	tray tables
coated ceilings	[grocery [store] -or- supermarket] cart handles	portable toilet exteriors	tubs
[computer] keyboards	[grocery [store] -or- supermarket] cart child seats	[public -or- pay] telephones -or- phone booths	urinals
cooler exteriors	gym[nastic] equipment	range hoods	vanity tops -or- vanities
counters -or- countertops	hampers	recycling bins	vehicles
cupboards	[hand]railings -or- rails	refrigerator door handles	vending machine surfaces
cribs	[hard] plastic -or- vinyl	refrigerator exterior	[vinyl] linoleum -or- wallpaper
crystal (non-food contact areas)	headsets	RVs	walkers
desk[s] [tops]	high chairs (non-food contact areas)	sealed fiberglass	walls
[diaper -or- infant] changing [tables] -or- areas [stations]	[kids'] play [structures] [equipment] [furniture] [tables]	shelves [and drawers]	[washable] floors [including linoleum, no-wax, vinyl, and glazed ceramic tile]
diaper pails	[kitchen] appliance exteriors	shower[s] [area] [curtains] [doors] [stalls] [walls]	washable kitchen surfaces
dictating equipment [surfaces]	light fixtures -or- switches -or- panels	signs	[washable] walls
[dining] [fast food] [kitchen] [picnic] [play] [restaurant] [tray] tables	linoleum	sink[s] [basins]	washers/dryers -or- washing machine exterior[s]
dining room surfaces -and/or- tables -and/or- fast food restaurant tables		seats	wastebaskets
door[s] [handle[s]] [frame[s]]		sports equipment	whirlpool tubs
doorknobs			window [blinds] [shades]
drain boards			windshields
drawer pulls			wrestling mats

SURFACE MATERIALS

[baked] enamel	glazed porcelain	sealed fiberglass	Do Not Use On:
chrome	glazed tile	stainless steel	acrylic plastics
[common] hard, nonporous [household -or- environmental] surfaces	laminated surfaces	synthetic marble	natural marble
Formica	Marlite	vinyl [tile]	painted surfaces
glazed ceramic [tile]	plastic [laminate]	similar hard, nonporous surfaces except for those excluded by the label	paper surfaces
	plexiglass		[polished] wood
	porcelain enamel		rubber
			unfinished wood



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

SEP -1 2011

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

J. Evelyn Lawson, Senior Regulatory Specialist
Clorox Professional Products Company
C/o PS&RC; P. O. 493
Pleasanton, CA 94566-0803

Subject: Efficacy Review & Product Chemistry Review
Carb
EPA Registration Number: 67619-21
Application Date: May 17, 2011
Application Receipt: May 18, 2011

Dear Ms. Lawson:

The efficacy study, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable.

Proposed Amendment:

The product, Carb (EPA Reg. No. 67619-21), is an EPA-approved disinfectant (bactericide, fungicide, tuberculocide, virucide) and deodorizer for use on hard, non-porous surfaces in household, commercial, institutional, industrial, food service, animal care, and hospital or medical environments. This is a ready to use product. The applicant requested to amend the registration of this product to add a fragrance to three formulations and to add a fourth formulation (i.e., F2011.002). The applicant also submitted four amended efficacy reports (i.e., for F2008.0034), for studies previously provided to the Agency. Studies were conducted at ATS Labs, located at 1285 Corporate Center Drive, Suite 110, in Eagan, MN 55121; and MICROBIOTEST, located at 105 Carpenter Drive in Sterling, VA 20164.

Clorox Professional Products Company is submitting an application to amend the registration for their EPA registered Product (CARB) to add a new fragrance to 3 revised CSFs (A01 through A03) and to one new CSF(A04).

In addition, Clorox Professional Products is requesting to update the previously approved CSF by updating the suppliers and procedures.

Efficacy Results:

1. The submitted confirmatory efficacy data support the use of the product, CARB (EPA Reg. No. 67619-21), F2011.002, as a disinfectant with bactericidal activity against the following microorganisms on hard, non-porous surfaces in the presence of a 5% organic soil load for a 2.5-minute contact time:

<i>Staphylococcus aureus</i>	MRID 484838-01
<i>Salmonella enterica</i>	MRID 484838-01
<i>Pseudomonas aeruginosa</i>	MRID 484838-01

Complete killing was observed in the subcultures of the required number of carriers tested against the required number of product lots. Neutralization confirmation testing showed positive growth of the microorganisms. Viability controls were positive for growth. Purity controls were reported as pure. Sterility controls did not show growth.

2. The submitted efficacy data (MRID 484838-02) support the use of the product, CARB (EPA Reg. No. 67619-21), F2011.002, as a disinfectant with virucidal activity against Rhinovirus type 39 on hard, non-porous surfaces in the presence of a 5% organic soil load for a 20-second contact time. A recoverable virus titer of at least 10^4 was achieved. Cytotoxicity was observed in the 10^{-1} dilutions. Complete inactivation (no growth) was indicated in all higher dilutions tested. At least a 3-log reduction in titer was demonstrated beyond the cytotoxic level.

3. The submitted efficacy data support the use of the product, Carb, F2008.0034, as a disinfectant with virucidal activity against the following microorganisms on hard, non-porous surfaces in the presence of a 5% organic soil load for a 30-second contact time (for a 10-minute contact time against Poliovirus type 1):

Avian influenza (H5N1) (NIBRG-14)	MRID 484838-03
Bovine viral diarrhea virus	MRID 484838-04 and -05
Poliovirus type 1	MRID 484838-06

Recoverable virus titers of at least 10^4 were achieved. In studies against Avian influenza virus (H5N1) (NIBRG-14), cytotoxicity was observed in the 10^{-2} and 10^{-3} dilutions. In studies against Bovine viral diarrhea virus and Poliovirus type 1, cytotoxicity was observed in the 10^{-2} dilutions. Complete inactivation (no growth) was indicated in all higher dilutions tested in each microorganism study. At least a 3-log reduction in titer was demonstrated beyond the cytotoxic level for each microorganism study.

In studies against Bovine viral diarrhea virus, the initial and confirmatory studies were performed at the same laboratory but under the direction of different study directors.

Product Chemistry Results:

FINDINGS:

The new fragrance already has been approved as an inert ingredient.

ACTIONS TAKEN:

All submitted CSFs were reviewed and the registration of active ingredient was confirmed.

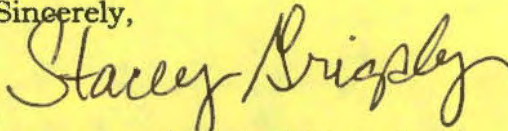
CONCLUSION:

The request from Clorox Professional Products is approved.

General Comments:

If you have questions concerning this letter, then please contact me by telephone at 703-308-6416 or by email at campbell-mcfarlane.jacqueline@epa.gov or Killian Swift by telephone at 703-308-6346 or by email at swift.killian@epa.gov. When you are submitting information or data in response to this letter, send a copy of this letter to accompany the submission to facilitate processing.

Sincerely,



J/ Jacqueline Campbell-McFarlane
Product Manager 34
Regulatory Management Branch II
Antimicrobials Division (7510P)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



Office of Pesticide Programs

Antimicrobials Division (AD)
August 23, 2011

DP BARCODE: 390165

MRID : NA

SUBJECT: CARB
(Name of Product)

REG. NO.: 67619-21

DOCUMENT TYPE: Product Chemistry Review

Manufacturing-use [] OR End-use Product [x]

INGREDIENTS:

<u>PC Code(s)</u>	<u>CAS Number</u>	<u>Active Ingredient(s)</u>
069165	32426-11-2	Octyl decyl dimethyl ammonium chloride
069149	7173-51-5	Dioctyl dimethyl ammonium chloride
069166	5538-94-3	Didecyl dimethyl ammonium chloride
069105	68424-85-1	Alkyl(50%C14,40%C12,10%C16) dimethyl benzyl ammonium chloride
001501	64-17-5	Ethanol

TEST LAB: NA

SUBMITTER: Clorox Professional Products Company

GUIDELINE: NA

ORGANIZATION: AD\PSB\CTT

REVIEWER: Bal Dubey

APPROVED BY: Karen P. Hicks

APPROVED DATE: August 23, 2011

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



United States
Environmental Protection
Agency

Office of Pesticide Programs

Antimicrobials Division (AD)

August 23, 2011

MEMORANDUM

SUBJECT: Product Chemistry Review for EPA Reg. EPA# 67619-21
Product Name: Carb
DP Barcode: 390165

CODE: (A570) Amendment; Non Fast Track

DATE DUE: October 08, 2011

FROM: Bal Dubey, Chemist
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

Bal Dubey
8/23/2011

THRU: Karen Hicks, Team Leader
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

Karen Hicks

TO: Stacey Grigsby
Regulatory Management Branch II
Antimicrobials Division (7510P)

Applicant: Clorox Professional Products Company

PRODUCT FORMULATION FROM LABEL:

<u>PC Codes</u>	<u>Active Ingredient(s):</u>	<u>% by wt.</u>
069165	Octyl decyl dimethyl ammonium chloride	0.1890
069149	Dioctyl dimethyl ammonium chloride	0.0945
069166	Didecyl dimethyl ammonium chloride	0.0945
069105	Alkyl(50%C14,40%C12,10%C16) dimethyl benzyl ammonium chloride	0.2520
001501	Ethanol	58.0600

Other Ingredient(s):

41.3100

Total

100.0000

BACKGROUND:

Clorox Professional Products Company is submitting an application to amend the registration for their EPA registered Product (CARB) to add a new fragrance to 3 revised CSFs (A01 through A03) and to one new CSF(A04).

In addition the registrant is requesting to update the previously approved CSF by updating the suppliers and procedures.

FINDINGS:

The new fragrance has already been approved as an inert ingredient.

ACTIONS TAKEN:

All submitted CSFs were reviewed and the clearance of active ingredients were confirmed.

All inert ingredients have been approved for use in this formulation.

CONCLUSION:

The request from the registrant is approved.



484838-00



Clorox Professional Products Company

May 17, 2011

Ms. Jacqueline McFarlane, Product Manager 34 (acting)
U.S. Environmental Protection Agency
Document Processing Desk (REGFEE)
Office of Pesticide Programs - 7504P
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Subject: Carb, EPA Reg. No. 67619-21
Application for Pesticide Amendment to add additional organisms, OPP EL0297A
Primary decision associated with secondary decision EPA Reg. No. 5813-97

Dear Ms. McFarlane:

Clorox Professional Products Company is submitting an application to amend the registration for Carb (EPA Reg. No. 67619-21) to add a new fragrance to 3 revised Confidential Statements of Formula (CSFs) and one new CSF (CSFs A01 through A04; the new CSF is A04). We are also submitting the previously approved Basic CSF to update the suppliers and producers. The new fragrance has already been approved as an inert ingredient. In addition, we are adding the following to our label:

- a new website (www.cloroxprofessional.com)
- a website location for ingredient statement
- alternate EPA Est. No language
- alternate statement "Made in Argentina"
- Corrected the fungi contact time to be 1 minute
- Specific instructions for HIV-1, HBV and HCV

Because this is an aerosol product, we conducted GLP confirmatory testing for the new formula (F2011.002). In addition we are submitting 4 amended reports which have already been approved by federal EPA due to the lab having issued final reports; we wanted EPA's data to match the lab's data.

The formula with the new fragrance is F2011.002, which is the same as CSF A04 without [REDACTED]. Prior efficacy studies including the four amended reports were conducted using F2008.0034, which is similar to the Basic under this registration, except the concentration of alcohol is different in the two formulas; however the activity of alcohol is identical in both formulas.

One copy of Volume I and 3 identical copies of Volumes II through VII are enclosed.

Volume I contains the following:

- Form 8570-1, Application for Pesticide Registration (OPP EL0297A) (+ 2 copies)
- Copy showing \$2000.00 credit from registrant 56392 (now known as Clorox Professional Products Company)
- Copy of check for \$1,474.00 already submitted to EPA
- Proposed labeling - 1 copy of strike-out/underline (label # R0803050)
- Proposed labeling - 5 clean copies (label # R0803051)
- Label certification statement + CD
- Form 8570-4, Confidential Statements of Formula - Basic through A04; 1 original + 2 copies
- Justification for active ingredient expanded limits
- Form 8570-34, Certification with Respect to Citation of Data for end-use product (EUP)
- Form 8570-35, Data Matrix (Agency Internal Use Copy) for EUP
- Form 8570-35, Data Matrix (Public File Copy) for EUP
- Form 8570-34, Certification with Respect to Citation of Data for Active Ingredient (AI) ethanol
- Form 8570-35, Data Matrix (Agency Internal Use Copy) for AI ethanol
- Form 8570-35, Data Matrix (Public File Copy) for AI ethanol
- Transmittal document

In addition, we are sending a diskette containing an e-label with the electronic file name of:

- 067619-00021.20110517R0803051.pdf

We enclose an extra copy of the cover letter and the transmittal document for all submitted studies.

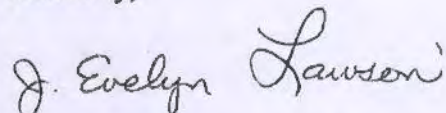
We believe that the following pesticide registration service fee information applies:

- Category: A570 - Label amendment requiring data submission
- Fee amount: \$3,474.00
- Decision time: 4 months

Finally, we request a copy of the efficacy Data Evaluation Record (DER) to be included with the Agency's response to this letter.

Thank you for your help in the timely review of this application. If you have any questions, please call me at 925 425-6842 or Elisa Estremera at 925-425-6199.

Sincerely,



J. Evelyn Lawson
Senior Regulatory Information Scientist
Clorox Professional Products Company
Email: CTCPSERC@Clorox.com

TRANSMITTAL DOCUMENT

1. Name and address of submitter

Clorox Professional Products Company
c/o PS&RC
P.O. Box 493
Pleasanton, CA 94566-0803
Attention: J. Evelyn Lawson

2. Regulatory action in support of which this package is submitted

Carb, EPA Reg. No. 67619-21
2 confirmatory efficacy studies for new formula and 4 amended reports

3. Transmittal date

May 16, 2011

4. Submitted studies

Vol. II - AOAC Germicidal Spray Test for *Pseudomonas aeruginosa*, *Salmonella enterica* and *Staphylococcus aureus*
F2011.002; 93-3 (g); A10500

MRID assigned: 48483801

Vol. III - Virucidal Efficacy for Rhinovirus type 39
F2011.002; 93-3 (g); A10493

MRID assigned: 48483802

Vol. IV - Virucidal Effectiveness Test for Avian Influenza virus (H5N1) (NIBRG-14), 810.2100 (g), F2008.0034; 320-491 amended report

MRID assigned: 48483803

Vol. V - Initial Virucidal Effectiveness Test for Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus), 810.2100 (g), F2008.0034; 320-494; amended report

MRID assigned: 48483804

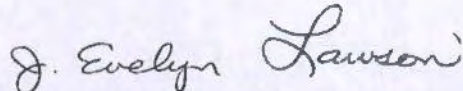
Vol. VI - Confirmatory Virucidal Effectiveness Test for Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus), 810.2100 (g), F2008.0034; 320-501; amended report

MRID assigned: 48483805

Vol. VII - Virucidal Effectiveness Test for Poliovirus Type 1
ATCC VR-1562, 810.2100 (g), F2008.0034; 320-515; amended

MRID assigned: 48483806

Company Official: J. Evelyn Lawson


Signature

Company Name: Clorox Professional Products Company
Company Contact: J. Evelyn Lawson
Phone: (925) 425-6842
Fax: (925) 425-4496
E-mail: CTCPSERC@Clorox.com



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M. Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137)U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date	May 13, 2011	EPA Reg. No./File Symbol	67619-21	Page 1 of 12	
Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb		
Ingredient	Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550 (61-1)	Product Identity and Composition	47696801	Clorox Professional Products Company (3/9/2009)	OWN	
830.1600 (61-2a)	Description of Materials Used to Produce the Product	47696801 47925601	Clorox Professional Products Company (3/9/2009) Clorox Professional Products Company (11/30/2009)	OWN OWN	
830.1620 (61-2a)	Description of Production Process	Waived			
830.1650 (61-2a)	Description of Formulation Process	47696801	Clorox Professional Products Company (3/9/2009)	OWN	
830.1670 (61-3)	Discussion of Formation of Impurities	47696801	Clorox Professional Products Company (3/9/2009)	OWN	
830.1700 (62-1)	Preliminary Analysis	Waived			
830.1750 (62-2)	Certified Limits	47696801	Clorox Professional Products Company (3/9/2009)	OWN	See CSF
830.1800 (62-3) [for quat]	Enforcement Analytical Method	47735601	The Clorox Company (3/30/2009)	OWN	
830.1800 (62-3) [for EtOH]	Enforcement Analytical Method	47735602	The Clorox Company (3/30/2009)	OWN	
830.1900 [64-1]	Submittal of Samples	Waived			

Signature <i>J. Evelyn Lawson</i>	Name and Title J. Evelyn Lawson Senior Regulatory Information Scientist	Date 5/13/2011
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401 M. Street, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

Date	May 13, 2011	EPA Reg. No./File Symbol	67619-21	Page 2 of 12	
Applicant's/Registrant's Name & Address		Product			
Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Carb			
Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6302 (63-2)	Color	Waived			
830.6303 (63-3)	Physical state	47696801	Clorox Professional Products Company (3/9/2009)	OWN	
830.6304 (63-4)	Odor	Waived			
830.6313 (63-13)	Stability to Normal and Elevated Temperature, Metals, and Metal Ions	Waived			
830.6314 (63-14)	Oxidation /Reduction: Chemical Incompatibility	Waived			
830.6315 (63-15)	Flammability	47696801	Clorox Professional Products Company (3/9/2009)	OWN	
830.6316 (63-16)	Explosibility	Waived			
830.6317 (63-17)	Storage Stability				
830.6319 (63-19)	Miscibility	Waived			
830.6320 (63-20)	Corrosion Characteristics				
830.6321 (63-21)	Dielectric Breakdown Voltage	Waived			
830.7000 (63-12)	pH	47696801	Clorox Professional Products Company (3/9/2009)	OWN	
Signature <i>J. Evelyn Lawson</i>			Name and Title J. Evelyn Lawson Senior Regulatory Information Scientist		Date 5/13/2011



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M. Street, S.W.
WASHINGTON, D.C. 20460

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Date May 13, 2011		EPA Reg. No./File Symbol 67619-21		Page 3 of 12	
Applicant's/Registrant's Name & Address Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Product Carb			
Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7050 [None]	UV/Visible Absorption	Waived			
830.7100 (63-18)	Viscosity	47696801	Clorox Professional Products Company (3/9/2009)	OWN	
830.7200 (63-5)	Melting Point/ Melting Range	Waived			
830.7220 (63-6)	Boiling Point/Boiling Range	Waived			
830.7300 (63-7)	Density/ Relative Density/Bulk Density	47696801	Clorox Professional Products Company (3/9/2009)	OWN	
830.7370 (63-10)	Dissociation Constants in Water	Waived			
830.7520 [None]	Particle Size, Fiber Length, and Diameter Distribution	Waived			
830.7550 (63-17)	Partition Coefficient (n-Octanol/Water), Shake Flask Method	Waived			
830.7560 (63-17)	Partition Coefficient (n-Octanol/Water), Generator Column Method	Waived			
830.7570 (63-17)	Partition Coefficient (n-Octanol/Water), Estimation By Liquid Chromatography	Waived			
830.7840 (63-8)	Water Solubility: Column Elution Method; Shake Flask Method	Waived			
830.7860 (63-8)	Water Solubility (Generator Column Method)	Waived			

Signature 	Name and Title J. Evelyn Lawson Senior Regulatory Information Scientist	Date 5/13/2011
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Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb		

Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7950 (63-9)	Vapor Pressure	Waived			
870.1100 (81-1)	Acute oral toxicity, rat	44636902	The Clorox Company (8/21/1998)	OWN	
870.1200 (81-2)	Acute dermal toxicity, rabbit	44636903	The Clorox Company (8/21/1998)	OWN	
870.1300 (81-3)	Acute inhalation toxicity, rat	44636904	The Clorox Company (8/21/1998)	OWN	
870.2400 (81-4)	Primary eye irritation, rabbit	44636905	The Clorox Company (8/21/1998)	OWN	
870.2400 (81-4)	Primary eye irritation, rabbit (supplemental data)	47768801	Clorox Professional Products Company (5/29/2009)	OWN	
870.2500 (81-5)	Primary dermal irritation, rabbit	44636906	The Clorox Company (8/21/1998)	OWN	
870.2600 (81-6)	Dermal Sensitization	44636907	The Clorox Company (8/21/1998)	OWN	
810.2100 (c),(d),(e)	<i>Trichophyton mentagrophytes</i> [ATCC 9533]; 5% soil load; 1 min; F2008.0034; 320-474	47696802	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (c),(d),(e)	<i>Acinetobacter baumannii</i> [ATCC 15308]; 5% soil load; 3 min; F2008.0034; 320-475	47696803	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (c),(d),(e)	Methicillin-Resistant <i>Staphylococcus aureus</i> ; Genotype USA 100 (HA-MRSA 100), NRS382, Clinical Isolate 08009; 5% soil load; 3 min; F2008.0034; 320-476	47696804	Clorox Professional Products Company (3/9/2009)	OWN	

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Applicant's/Registrant's Name & Address		Product			
Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Carb			
Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.2100 (c),(d),(e)	Methicillin-Resistant <i>Staphylococcus aureus</i> , Genotype USA 200 (HA-MRSA 200), NRS383, Clinical Isolate 08010; 5% soil load; 3 min; F2008.0034; 320-477	47696805	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (c),(d),(e)	Community-Associated Methicillin-Resistant <i>Staphylococcus aureus</i> , Genotype 300 (CA-MRSA 300); Clinical Isolate 08001, 5% soil load; 3 min; F2008.0034; 320-478	47696806	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (c),(d),(e)	<i>Escherichia coli</i> O157:H7, ATCC 35150; 5% soil load; 3 min; F2008.0034; 320-480	47696807	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (c),(d),(e)	ESBL (Extended Spectrum Beta Lactamase) producing <i>Escherichia coli</i> (ESBL producing <i>E. coli</i>) [ATCC BAA-196]; 5% soil load; 3 min; F2008.0034; 320-481	47696808	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (c),(d),(e)	Methicillin resistant <i>Staphylococcus aureus</i> (MRSA) [ATCC 33591]; 5% soil load; 3 min; F2008.0034; 320-483	47696809	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (c),(d),(e)	Vancomycin resistant <i>Enterococcus faecalis</i> [ATCC 51299]; 5% soil load; 3 min; F2008.0034; 320-487	47696810	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (c),(d),(e)	<i>Staphylococcus aureus</i> [ATCC 6538], <i>Pseudomonas aeruginosa</i> [ATCC 15442], <i>Salmonella enterica</i> [ATCC 10708]; 5% soil load; 3 min; F2008.0034; 320-490	47696811	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (g)	Avian Influenza virus (H5N1)(NIBRG-14); 5% soil load; 30 sec; F2008.0034; 320-491	47696812	Clorox Professional Products Company (3/9/2009)	OWN	

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J. Evelyn Lawson	J. Evelyn Lawson Senior Regulatory Information Scientist	5/13/2011



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Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.2100 (g)	Initial Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus); 5% soil load; 30 sec; F2008.0034; 320-494	47696813	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (g)	Human Influenza A virus, A/PR/8/34 (H1N1); 5% soil load; 30 sec; F2008.0034; 320-496	47696814	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (g)	Confirmatory Bovine Viral Diarrhea Virus, (Surrogate for Human Hepatitis C virus); 5% soil load; 30 sec; F2008.0034; 320-501	47696816	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (c), (d), (e)	Community associated Methicillin resistant <i>Staphylococcus aureus</i> [Genotype 400 (CA-MRSA 400); Clinical Isolate 08005]; 3 min, 5% soil load; F2008.0034; 320-479	47067001	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	Multidrug resistant <i>Klebsiella Pneumoniae</i> [ATCC 51503]; 3 min, 5% soil load; F2008.0034; 320-482	47067002	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Streptococcus pyogenes</i> [ATCC 19615]; 3 min, 5% soil load; F2008.0034; 320-484	47067003	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (g)	Human Immunodeficiency Virus (HIV) Type 1; 30 sec, 5% soil load; F2008.0034; 320-495	47067004	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (g)	Respiratory Syncytial Virus [ATCC VR-26]; 30 sec, >= 5% soil load; F2008.0034; 320-497	47067005	Clorox Professional Products Company (1/19/2010)	OWN	

Signature

*J. Evelyn Lawson*Name and Title J. Evelyn Lawson
Senior Regulatory Information ScientistDate
5/13/2011



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Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.2100 (g)	SARS-associated Coronavirus [CDC strain 200300592]; 10 min, 5% soil load; F2008.0034; 320-498	47067006	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (g)	Duck Hepatitis B (surrogate for Human Hepatitis B virus); (DHBV) Confirmatory test; 30 sec, 100% duck serum; F2008.0034; 320-500	47067007	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (g)	Coxsackievirus B3 [ATCC VR-30]; 10 min, 5% soil load; F2008.0034; 320-507	47067008	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Burkholderia cepacia</i> [ATCC 25416]; 3 min, 5% soil load; F2008.0034; 320-518	47067009	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Corynebacterium diphtheriae</i> [ATCC 11913]; 3 min, 5% soil load; F2008.0034; 320-520	47067010	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Escherichia coli</i> (<i>E.coli</i>) [ATCC 11229]; 3 min, 5% soil load; F2008.0034; 320-521	47067011	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Enterobacter cloacae</i> [ATCC 35549]; 3 min, 5% soil load; F2008.0034; 320-523	47067012	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Klebsiella oxytoca</i> [ATCC 43165]; 3 min, 5% soil load; F2008.0034; 320-425	47067013	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Listeria monocytogenes</i> [ATCC 19111]; 3 min, 5% soil load; F2008.0034; 320-529	47067014	Clorox Professional Products Company (1/19/2010)	OWN	
Signature <i>J. Evelyn Lawson</i>			Name and Title J. Evelyn Lawson Senior Regulatory Information Scientist		Date 5/13/2011



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Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Carb			
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.2100 (c), (d), (e)	<i>Proteus mirabilis</i> [ATCC 7002]; 3 min, 5% soil load; F2008.0034; 320-530	47067015	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Proteus vulgaris</i> [ATCC 27973]; 3 min, 5% soil load; F2008.0034; 320-531	47067016	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Salmonella enterica</i> serovar - <i>paratyphi B</i> [ATCC 8759]; 3 min, 5% soil load; F2008.0034; 320-534	47067017	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Salmonella typhi</i> [ATCC 6539]; 3 min, 5% soil load; F2008.0034; 320-535	47067018	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Serratia marcescens</i> [ATCC 14756]; 3 min, 5% soil load; F2008.0034; 320-536	47067019	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Shigella dysenteriae</i> [ATCC 13313]; 3 min, 5% soil load; F2008.0034; 320-537	47067020	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Stenotrophomonas maltophilia</i> [ATCC 13637]; 3 min, 5% soil load; F2008.0034; 320-539	47067021	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (g)	Adenovirus Type 14 [ATCC VR-15]; 10 min, 5% soil load; F2008.0034; 320-549	47067022	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (g)	Hepatitis A virus; 10 min, 5% soil load; F2008.0034; 320-553	47067023	Clorox Professional Products Company (1/19/2010)	OWN	

Signature	Name and Title	Date
<i>J. Evelyn Lawson</i>	J. Evelyn Lawson Senior Regulatory Information Scientist	5/13/2011



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Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.2100 (c), (d), (e)	<i>Candida albicans</i> [ATCC 10231]; 1 min; 5% soil load; F2008.0034; 320-485	47067024	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Mycobacterium bovis</i> (BCG) -or- TB; 5 and 9.5 min; 5% organic load; F2008.0034; 320-486	47067025	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (g)	Feline calicivirus (Norovirus and Norwalk surrogate) [ATCC VR-782]; initial; 10 min; 5% soil load; F2008.0034; 320-492	47067026	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (g)	Duck hepatitis B virus ((surrogate for Human Hepatitis B virus); (DHBV); - initial test; 30 sec; 100% duck serum; F2008.0034; 320-493	47067027	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (g)	Feline Calicivirus (Norovirus and Norwalk Surrogate) [ATCC VR-782] (confirmatory); 10 min; 5% soil load; F2008.0034; 320-499	47067028	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (g)	Rotavirus [ATCC VR-899]; 10 min; 5% soil load; F2008.0034; 320-505	47067029	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Campylobacter jejuni</i> [ATCC 29428]; 3 min; 5% soil load; F2008.0034; 320-519	47067030	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Enterobacter aerogenes</i> [ATCC 13048]; 3 min; 5% soil load; F2008.0034; 320-522	47067031	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (g)	<i>Enterococcus faecalis</i> [ATCC 29212]; 3 min; 5% soil load; F2008.0034; 320-524	47067032	Clorox Professional Products Company (1/19/2010)	OWN	
Signature <i>J. Evelyn Lawson</i>			Name and Title J. Evelyn Lawson Senior Regulatory Information Scientist		Date 5/13/2011



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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.2100 (c), (d), (e)	<i>Klebsiella pneumoniae</i> [ATCC 4352]; 3 min; 5% soil load; F2008.0034; 320-526	47067033	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	Extended Spectrum Beta Lactamase producing <i>Klebsiella pneumoniae</i> (ESBL producing <i>Klebsiella pneumoniae</i>) [ATCC 700603]; 3 min; 5% soil load; F2008.0034; 320-527	47067034	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Legionella pneumophila</i> (The bacteria that causes Legionnaires disease) [ATCC 33153]; 3 min; 5% soil load; F2008.0034; 320-528	47067035	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Pseudomonas putida</i> [ATCC 12633]; 3 min; 5% soil load; F2008.0034; 320-532	47067036	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Salmonella enteritidis</i> [ATCC 13076]; 3 min; 5% soil load; F2008.0034; 320-533	47067037	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Streptococcus pneumoniae</i> [ATCC 33400]; 3 min; 5% soil load; F2008.0034; 520-540	47067038	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (g)	Hantavirus (Prospect Hill Virus) 30 sec; >= 5% soil load; F2008.0034; 320-547	47067039	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (g)	Adenovirus type 2 [ATCC VR-846]; 10 min; 5% soil load; F2008.0034; 320-548	47067040	Clorox Professional Products Company (1/19/2010)	OWN	

Signature

J. Evelyn Lawson

Name and Title J. Evelyn Lawson
Senior Regulatory Information Scientist

Date
5/13/2011



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Ingredient	Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.2100 (g)	Echovirus Type 12 [ATCC VR-42]; 10 min; >= 5% soil load; F2008.0034; 320-551	47067041	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (g)	Herpes Simplex Virus type 1 [ATCC VR-260]; 30 sec; 5% soil load; F2008.0034; 320-554	47067042	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (g)	Herpes Simplex Virus type 2 [ATCC VR-734]; 30 sec; 5% soil load; F2008.0034; 320-555	47067043	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (g)	Human coronavirus [Associated causative agent of common cold] [ATCC VR-740 Strain 229-E]; 30 sec; 5% soil load; F2008.0034; 320-556	47067044	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (g)	Human Influenza B Virus (B/Lee 40; 30 sec; 5% soil load; F2008.0034; 320-557	47067045	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (g)	Cytomegalovirus [ATCC VR-538] [Strain AD-169]; 30 sec; 5% soil load; F2008.0034; 320-559	47067046	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	<i>Candida glabrata</i> [ATCC 2001]; 1 min; 5% soil load; F2008.0034; 320-562	47067047	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	Penicillin-resistant <i>Streptococcus pneumoniae</i> [ATCC 700671]; 3 min; 5% soil load; F2008.0034; 320-563	47067048	Clorox Professional Products Company (1/19/2010)	OWN	
810.2100 (c), (d), (e)	Carbapenem resistant <i>Klebsiella pneumoniae</i> [ATCC BAA-1705]; 3 min; 5% soil load; F2008.0034; 320-564	47067049	Clorox Professional Products Company (1/19/2010)	OWN	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson Senior Regulatory Information Scientist	Date	5/13/2011
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WASHINGTON, D.C. 20460

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DATA MATRIX

Date	May 13, 2011	EPA Reg. No./File Symbol	67619-21	Page	12 of 12
Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb		

Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
91-3 (g)	<i>Pseudomonas aeruginosa</i> [ATCC 15442], <i>Salmonella enterica</i> [ATCC 10708], <i>Staphylococcus aureus</i> [ATCC 6538]; F2011.002; 2 min 30 sec; 5% FBS; A10500	To be assigned	Clorox Professional Products Company (5/13/2011)	OWN	
91-2 (f)	Rhinovirus type 39 [Strain 209 ATCC VR-340]; F2011.002; 20 sec; 5% FBS; A10493	To be assigned	Clorox Professional Products Company (5/13/2011)	OWN	
810.2100 (g)	Amended report: Avian Influenza virus (H5N1)(NIBRG-14), 5% soil load; 30 sec; F2008.0034; 320-491	To be assigned	Clorox Professional Products Company (5/13/2011)	OWN	
810.2100 (g)	Amended report: Initial Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus), 5% soil load; 30 sec; F2008.0034; 320-494	To be assigned	Clorox Professional Products Company (5/13/2011)	OWN	
810.2100 (g)	Amended report: Confirmatory Bovine Viral Diarrhea Virus, (Surrogate for Human Hepatitis C virus), 5% soil load; 30 sec; F2008.0034; 320-501	To be assigned	Clorox Professional Products Company (5/13/2011)	OWN	
810.2100 (g)	Amended report: Poliovirus Type 1 [ATCC VR-1562]; F2008.0034 10 min; 5% FBS; 320-515	To be assigned	Clorox Professional Products Company (5/13/2011)	OWN	

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DATA MATRIX

Date May 13, 2011		EPA Reg. No./File Symbol 67619-21		Page 1 of 5	
Applicant's/Registrant's Name & Address Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Product Carb (Note: this is the data matrix for the active ingredient ethanol)			
Ingredient Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550 (61-1)	Product Identity and Composition	42705601	American Ripener Co., Inc.	OLD	
830.1600 (61-2a)	Description of Materials Used to Produce the Product	42705601	American Ripener Co., Inc.	OLD	
830.1620 (61-2b)	Description of Production Process	42705601	American Ripener Co., Inc.	OLD	
830.1650 (61-2b)	Description of Formulation Process	N/A	Not required for Manufacturing Use Product		
830.1670 (61-3)	Discussion of Formation of Impurities	42705601	American Ripener Co., Inc.	OLD	
830.1700 (62-1)	Preliminary Analysis	N/A			
830.1750 (62-2)	Certification of Limits	42705602	American Ripener Co., Inc.	OLD	
830.1800 (62-3)	Enforcement Analytical Method	47696801	Clorox Professional Products Company (3/9/2009)	OWN	
830.1900 (64-1)	Submittal of Samples	N/A	Not a requirement at time of RED for Aliphatic Alcohols (April 1995)		
830.6302 (63-2)	Color	42705603	American Ripener Co., Inc.	OLD	
830.6303 (63-3)	Physical state	42705603	American Ripener Co., Inc.	OLD	
830.6304 (63-4)	Odor	42705603	American Ripener Co., Inc.	OLD	
830.6313 (63-13)	Stability to Normal and Elevated Temperature, Metals, and Metal Ions	42705603	American Ripener Co., Inc.	OLD	

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DATA MATRIX

Date	May 13, 2011	EPA Reg. No./File Symbol	67619-21	Page	2 of 5
Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb (Note: this is the data matrix for the active ingredient ethanol)		

Ingredient Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6314 (63-14)	Oxidation /Reduction: Chemical Incompatibility	42705603	American Ripener Co., Inc.	OLD	
830.6315 (63-15)	Flammability	42705603	American Ripener Co., Inc.	OLD	
830.6316 (63-16)	Explosability	42705603	American Ripener Co., Inc.	OLD	
830.6317 (63-17)	Storage Stability	Waived			
830.6319 (63-19)	Miscibility	42705603	American Ripener Co., Inc.	OLD	
830.6320 (63-20)	Corrosion Characteristics	42705603	American Ripener Co., Inc.	OLD	
830.6321 (63-21)	Dielectric Breakdown Voltage	Waived	Not required for Manufacturing Use Product		
830.7000 (63-12)	pH	42705603	American Ripener Co., Inc.	OLD	
830.7050 [None]	UV/Visible Absorption	Waived	Not required for Manufacturing Use Product		
830.7100(63-18)	Viscosity	42705603	American Ripener Co., Inc.	OLD	
830.7200 (63-5)	Melting Point/ Melting Range	42705603	American Ripener Co., Inc.	OLD	
830.7220 (63-6)	Boiling Point/Boiling Range	42705603	American Ripener Co., Inc.	OLD	
830.7300 (63-7)	Density/Relative Density/Bulk Density	42705603	American Ripener Co., Inc.	OLD	

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DATA MATRIX

Date May 13, 2011		EPA Reg. No./File Symbol 67619-21		Page 3 of 5	
Applicant's/Registrant's Name & Address Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Product Carb (Note: this is the data matrix for the active ingredient ethanol)			
Ingredient Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7370 (63-10)	Dissociation Constants in Water	42705603	American Ripener Co., Inc.	OLD	
830.7520 [None]	Particle Size, Fiber Length, and Diameter Distribution	N/A	The product is neither a powdered-type nor a fibrous product		
830.7550 (63-11)	Partition Coefficient (n-Octanol/Water), Shake Flask Method	Waived			
830.7560 (63-11)	Partition Coefficient (n-Octanol/Water), Generator Column Method	Waived			
830.7570 (63-11)	Partition Coefficient (n-Octanol/Water), Estimation By Liquid Chromatography	Waived			
830.7840 (63-8)	Water Solubility: Column Elution Method; Shake Flask Method	42705603	American Ripener Co., Inc.	OLD	
830.7860 (63-8)	Water Solubility (Generator Column Method)	42705603	American Ripener Co., Inc.	OLD	
830.7950 (63-9)	Vapor Pressure	42705603	American Ripener Co., Inc.	OLD	
72-3a	Estuarine/Marine Toxicity Fish	N/A	Guideline satisfied by studies in public literature	PL	
(84-4)	Other Genotoxic Effects	N/A	Guideline satisfied by studies in public literature	PL	
850.1010 (72-2a)	Aquatic Invertebrate Acute Toxicity, Test, Freshwater Daphnids - Invertebrate	N/A	Guideline satisfied by studies in public literature	PL	

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Applicant's/Registrant's Name & Address Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Product Carb (Note: this is the data matrix for the active ingredient ethanol)			
Ingredient Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1075 (72-1a)	Fish Acute Toxicity Test, Freshwater and Marine (Bluegill)	40098001	Novartis Crop Protection	OLD	
850.1075 (72-1c)	Fish Acute Toxicity Test, Freshwater and Marine - Rainbow Trout	40098001	Novartis Crop Protection	OLD	
870.1100 (81-1)	Acute oral toxicity, rat	N/A	Guideline satisfied by studies in public literature	PL	
870.1200 (81-2)	Acute dermal toxicity, rabbit	N/A	Guideline satisfied by studies in public literature	PL	
870.1300 (81-3)	Acute inhalation toxicity, rat	N/A	Guideline satisfied by studies in public literature	PL	
870.2400 (81-4)	Primary eye irritation, rabbit	N/A	Guideline satisfied by studies in public literature	PL	
870.2500 (81-5)	Primary dermal irritation, rabbit	N/A	Guideline satisfied by studies in public literature	PL	
870.2600 (81-6)	Dermal Sensitization	N/A	Not a requirement at time of RED for Aliphatic Alcohols (April 1995)		
870.3100 (82-1a)	90-Day Oral Toxicity in Rodents	N/A	Guideline satisfied by studies in public literature	PL	
870.3200 (82-2)	21/28-Day Dermal Toxicity	N/A	Guideline satisfied by studies in public literature	PL	

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Applicant's/Registrant's Name & Address Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Product Carb (Note: this is the data matrix for the active ingredient ethanol)			
Ingredient Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3465 (82-4)	90-Day Inhalation Toxicity	N/A	Guideline satisfied by studies in public literature	PL	
870.3700 (83-3a)	Prenatal Developmental Toxicity Study (Development Toxicity) - Rat	N/A	Guideline satisfied by studies in public literature	PL	
870.4100 (83-1a)	Chronic Toxicity (Chronic Feeding Toxicity - Rodent)	00031038	Purdue Frederick Company	OLD	
870.5300 (84-2a)	In Vitro Mammalian Cell Gene Mutation Test	N/A	Guideline satisfied by studies in public literature	PL	
870.5375 (84-2b)	In Vitro Mammalian Chromosome Aberration Test	N/A	Guideline satisfied by studies in public literature	PL	
870.7485 (85-1)	Metabolism and Pharmacokinetics	N/A	Guideline satisfied by studies in public literature	PL	

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CARB

ACTIVE INGREDIENTS:

Octyl decyl dimethyl ammonium chloride.....	0.1890%
Dioctyl dimethyl ammonium chloride.....	0.0945%
Didecyl dimethyl ammonium chloride.....	0.0945%
Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chlorides.....	0.2520%
Ethanol.....	58.0600%
OTHER INGREDIENTS‡:.....	41.3100%
TOTAL:.....	100.0000%

PC
 069165
 069149
 069166
 069105
 001501

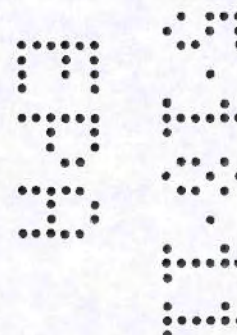
CAS -
 32426-11-2
 7173-51-5
 5538-94-3
 68424-85-1
 64-17-5

‡ This product contains sodium nitrite

KEEP OUT OF REACH OF CHILDREN

WARNING: See back panel for additional
 precautionary statements.

NET WT. _____



This product must not result in the direct or indirect contamination of food products.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eye wear (safety glasses). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. If skin contact with product occurs, wash thoroughly with soap and water, especially prior to food handling and preparation. Remove or cover aquariums and cages before use.

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor for further treatment advice. Have the product container with you when calling a poison control center or doctor or going for treatment. Questions? Call 1-888-797-7225.

PHYSICAL HAZARDS: Flammable: Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130° Fahrenheit may cause bursting.

(Residential Use)

STORAGE AND DISPOSAL:

Store at temperatures below 130°F in a locked storage area inaccessible to children and persons unfamiliar with its use. **DO NOT PUNCTURE OR INCINERATE!** Offer for recycling; if not available, discard empty container in trash. If partially filled: Call your local solid waste agency for disposal instructions.

(Commercial/Institutional/Industrial Use)

STORAGE AND DISPOSAL:

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store at temperatures below 130° F in a locked storage area inaccessible to children and persons unfamiliar with its use.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling: **DO NOT PUNCTURE OR INCINERATE!** Offer for recycling; if not available, discard in trash. If partially filled: Call your local solid waste agency for disposal instructions.

Questions? Comments? Call toll-free 1-888-797-7225

www.cloroxprofessional.com

A list of this product's ingredients is available at www.CloroxCSR.com

Mfd. for Clorox Professional Products Company

1221 Broadway, Oakland, CA 94612

© 2009 The Clorox Company

EPA Reg. No. 67619-21

Preferred language or label generated for one location only or if no plant code available (note: styles cannot be mixed)

EPA Est. No. 58996-MO-1 -or- 5813-ARG-1

Language similar to the following is needed if more than one

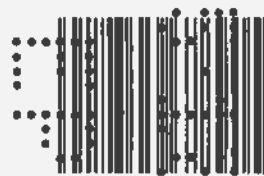
EPA Est. No. listed above

Actual EPA Est. No. in code above -or- below.

EPA Est. No. language: all Est. Nos. listed in this format must have plant code in parentheses if product will be repackaged

EPA Est. No. 58996-MO-1 (AU); 5813-GA-2 (VG); 71681-GA-1 (JQ),
IL-1 (GU), IL-2 (24); 81368-OH-1 (28)

Made in [the] USA -or-
Made in Argentina
Contains no phosphorus
Contains no CFCs or other
ozone depleting substances
Federal Regulations Prohibit
CFC Propellants in Aerosols



DISINFECTION

To Disinfect: Spray 6 to 10 inches from precleaned surface for 3-4 seconds -or- until thoroughly wet. Surface must remain wet for 10 minutes. A potable water rinse is required for food contact surfaces.

Do not use on glasses, dishes, or utensils.

Claims:

- Antibacterial [spray] [action] [formula]
- An effective disinfectant for use in the kitchen, bathroom, bedroom, and other areas
- Antibacterial [Formula]
- Antibacterial Formula Disinfects
- Antibacterial -or- Germicidal [on hard, nonporous surfaces] [for Kitchens and Bathrooms]
- Antibacterial -or- Germicidal [Formula]
- Antimicrobial
- Bactericidal
- [Bathroom] [Restroom] [Kitchen] disinfectant
- Broad Spectrum Hospital Disinfectant
- Disinfects & [and] Deodorizes
- Disinfectant
- Disinfectant [for Institutional Use]
- Disinfecting formula
- Disinfecting spray
- Disinfect[s]
- Disinfects [Germs]
- Disinfects [washable] kitchen surfaces including killing [99.9% of] germs -and/or- bacteria -and/or- viruses -and/or- fungi
- Easily disinfect
- For [Hospital] [Commercial] [Industrial] & Institutional Use
- For Healthcare Use
- For Hospital Use
- Fungicidal -or- Antifungal
- Germicidal
- Hospital disinfectant
- Kills 99.9% of Bacteria
- Kills [99.9% of] Germs
- Kills [99.9% of] [kitchen] [bathroom] bacteria
- Kills [99.9% of] *see organism list*
- Kills Avian Influenza virus**
- Kills bacteria -or- germs -or- viruses on washable kitchen -and/or- bathroom surfaces and fixtures
- Kills bacteria -or- viruses
- Kills Flu Virus[†] [Influenza A virus]
- Kills [household] bacteria [without bleaching]
- Kills Influenza A virus [the virus that causes the common flu]
- Kills [Salmonella enterica] [kitchen bacteria]
- Leaves hard, nonporous surfaces sanitary -or- disinfected in 10 minutes
- Multi-purpose disinfectant [spray]
- Provides broad spectrum kill of Gram negative and Gram positive microorganisms

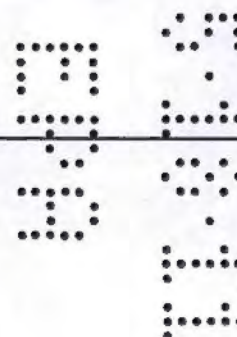
- Pseudomonacidal
- Ready to use disinfectant
- Ready to use formula provides disinfecting and deodorizing
- Spray
- Staphylocidal
- [This product] deodorizes and disinfects hard, nonporous surfaces -or- *list any use sites: Tables 1-5*
- [This product] is a disinfectant that disinfects, and deodorizes in one labor saving step
- This product is a Broad Spectrum disinfectant, bactericidal according to the AOAC Germicidal Spray Products test method
- This product is effective against the pathogenic fungi Trichophyton mentagrophytes (Athlete's Foot Fungus) when used as directed for disinfection with a contact time of 1 minute on hard, nonporous surfaces in bathrooms, including shower stalls, floors, and glazed bathroom tiles
- [This product] kills 99.9% of bacteria & viruses
- [This product] kills bacteria, viruses and mold
- [This product] kills germs throughout the kitchen -or- restaurant -or- establishment -or- building on hard, nonporous surfaces plus controls mold growth
- This product meets AOAC Germicidal Spray Product Test efficacy standards for hospital disinfectants
- [This product] will disinfect hard, nonporous surfaces [*insert surface[s] from Tables 1-5*] [*use site[s] from Tables 1-5*]
- Use [this product] to disinfect nonporous [*insert use sites/surfaces from Tables 1-5*]. [Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (120°), and allow to air dry.
- Virucidal†† -or- Antiviral††
- [Virucidal††] [Bactericidal] [Pseudomonacidal] [Fungicidal] [Deodorizer]

**Kills Avian Influenza virus on precleaned hard, nonporous surfaces

†Influenza A virus

Germicidal against the following [organisms]: -or- [This product] kills the following [organisms]: -or- Disinfects against the following [organisms] -and/or- Fungicidal -and/or- Virucidal††:

Organisms:
See organism list



DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
[Shake well.] For use on non-food contact surfaces only. For surfaces that may come in contact with food [such as countertops and high chairs], a potable water rinse is required. Do not use on glassware, utensils or dishes.

GENERAL CLAIMS

New[!] [& Improved] to be used as a claim descriptor only for the first 6 months of product on shelf

Claims:

- Do not use on [polished] wood, painted surfaces, acrylic plastics
- Bleach-free
- Clear formula
- Color fast
- Commercial Solutions®
- Contains no abrasives, harsh acids
- Contains no bleach
- Convenient
- Does not contain bleach
- Easy to use
- Eliminates -or- Removes [kitchen] [bathroom] odors
- For Professional Use
- For use in homes
- For use on both white and colored hard surfaces
- Formula for bathrooms -and/or- kitchens
- Great for everyday use [in the kitchen -or- bathroom]
- Great for Kitchen[s] -and/or- Bathroom[s] [too]
- [Great] For Everyday Use [in Kitchens and Bathrooms]
- Great in the Kitchen and Bathroom
- Institutional [size]
- Kitchen formula
- Made for kitchen surfaces and odors
- Multi-Surface
- No mixing
- No Unpleasant Odors
- Non-abrasive formula [will not scratch surfaces]
- Non-Chlorine Formula: Will not bleach clothing or colored surfaces
- Prevents [odors]
- Professional size
- Will not harm most hard, nonporous surfaces
- Will not harm Special -or- Premium Surfaces

DEODORIZATION

To deodorize: Spray on precleaned surfaces as needed.

Claims:

- Deodorizes -and/or- disinfects -or- helps deodorize
- Deodorizer [for Institutional Use]
- Deodorizes food odors [like garlic and onion] [left behind on kitchen surfaces] [after cooking]
- Eliminates mold odor[s]
- Eliminates odors caused by bacteria [and non-fresh foods]
- Eliminates -or- reduces [kitchen] odors [in the trash can -or- recycling bin odors -or- smells] [caused by germs or bacteria]
- Eliminates pet odors caused by germs or bacteria
- Kills odor causing bacteria in the kitchen -or- bathroom
- Kills odor causing bacteria -or- germs
- Kills -or- eliminates bacteria that cause [bad] odors
- [This product] deodorizes areas that are hard to keep fresh smelling, in the [insert use sites from Tables 1-5]
- [This product] will deodorize hard, nonporous surfaces [including [insert surface[s] from Tables 1-5] [use site[s] from Tables 1-5]] [where obnoxious odors may develop]
- [This product] will deodorize surfaces in [insert site[s] from Tables 1-5]
- Removes -or- Eliminates odors

DYE & SCENT DESCRIPTORS AND CLAIMS:

- Contains no [dyes] [added colors]
- Dye-Free
- Free of Added -and/or- Dyes -and/or- Colors
- Free -or- clear of dyes
- Fresh scent formula
- Fresh Scented
- Has a fresh scent -or- fragrance -or- smell

MOLD

To control and prevent the growth of mold:

Spray precleaned surface until thoroughly wet. Surface must remain wet for 1 minute before wiping or air drying. Respray product as necessary for ongoing -or- continual control.

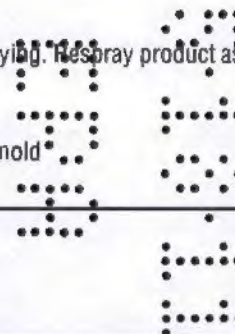
Claims:

- Controls [and] [prevents] mold growth
- Kills [and prevents the growth of] mold
- This product inhibits growth of mold

Organism:

1 minute contact time:

Trichophyton mentagrophytes [ATCC 9533]



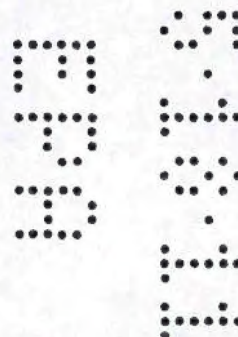
Pandemic 2009 H1N1 Influenza A virus

Standard 2009 H1N1 Claims:

- Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by influenza A virus. This product (***Product Name***) is a broad-spectrum hard surface disinfectant that has been shown to be effective against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.
- This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- Kills Pandemic 2009 H1N1 influenza A virus (formerly called swine flu).
- Kills Pandemic 2009 H1N1 influenza A virus.

Alternate 2009 H1N1 Claims:

- Kills [2009] H1N1 [Flu Virus]
- Kills Germs -and/or- Flu Viruses [including [2009] H1N1]
- Kills [99.9%] of Germs including [2009] H1N1 [Flu Virus]
- Effective against [2009] H1N1 [Flu Virus]



DISINFECTION continued

Organisms:

[This product] kills germs: -or- Kills -or- Disinfects against the following bacteria, viruses, fungi:

ORGANISMS:

Bacteria:	
3 minute contact time:	
Acinetobacter baumannii	[ATCC 15308]
Burkholderia cepacia	[ATCC 25416]
Campylobacter jejuni	[ATCC 29428]
Carbapenem-Resistant Klebsiella pneumoniae	[ATCC BAA-1705]
Community-Associated Methicillin-Resistant Staphylococcus aureus (CA-MRSA [Genotype] 300)	[Genotype 300]
Community-Associated Methicillin-Resistant Staphylococcus aureus (CA-MRSA [Genotype] 400)	[Genotype 400] [Clinical Isolate 08005]
Corynebacterium diphtheriae	[ATCC 11913]
Enterobacter aerogenes	[ATCC 13048]
Enterobacter cloacae	[ATCC 35549]
Enterococcus faecalis	[ATCC 29212]
Escherichia coli (E.coli)	[ATCC 11229]
Escherichia coli O157:H7	[ATCC 35150]
ESBL (Extended Spectrum Beta Lactamase) producing Escherichia coli [(ESBL producing E. coli)]	[ATCC BAA-196]
Extended Spectrum Beta Lactamase producing Klebsiella pneumoniae [(ESBL producing Klebsiella pneumoniae)]	[ATCC 700603]
Klebsiella oxytoca	[ATCC 43165]
Klebsiella pneumoniae	[ATCC 4352]
Legionella pneumophila	[ATCC 33153]
Listeria monocytogenes	[ATCC 19111]
Methicillin-Resistant Staphylococcus aureus (MRSA 100)	[Genotype USA 100 NARSA NRS382]
Methicillin-Resistant Staphylococcus aureus (MRSA 200)	[Genotype USA 200 NARSA NRS383]
Methicillin-Resistant Staphylococcus aureus	[ATCC 33591]
Multidrug-Resistant Klebsiella pneumoniae	[ATCC 51503]
Penicillin-Resistant Streptococcus pneumoniae	[ATCC 700671]
Proteus mirabilis	[ATCC 7002]
Proteus vulgaris	[ATCC 27973]
Pseudomonas aeruginosa	[ATCC 15442]
Pseudomonas putida	[ATCC 12633]
Salmonella enterica	[ATCC 10708]
Salmonella enterica [serovar – paratyphi B]	[ATCC 8759]
Salmonella enteritidis	[ATCC 13076]
Salmonella typhi	[ATCC 6539]
Serratia marcescens	[ATCC 14756]
Shigella dysenteriae	[ATCC 13313]
Staphylococcus aureus	[ATCC 6538]
Stenotrophomonas maltophilia	[ATCC 13637]
Streptococcus pneumoniae	[ATCC 33400]
Streptococcus pyogenes	[ATCC 19615]
Vancomycin-Resistant Enterococcus faecalis (VRE)	[ATCC 51299]
5 minute contact time:	
Mycobacterium bovis (BCG) -or- TB	

DISINFECTION continued

Fungi:

1 minute contact time:

Candida albicans	[ATCC 10231]
Candida glabrata	[ATCC 2001]
Trichophyton mentagrophytes	[ATCC 9533]

Viruses (non-enveloped):

30 second contact time:

††Rhinovirus 39	[ATCC VR-340]
-----------------	---------------

10 minute contact time:

††Adenovirus type 2	[ATCC VR-846]
††Adenovirus type 14	[ATCC VR-15]
††Coxsackievirus B3	[ATCC VR-30]
††Echovirus type 12	[ATCC VR-42]
††Feline calicivirus (surrogate for Norovirus)	[ATCC VR-782]
††Hepatitis A virus	
††Poliovirus [type 1] [Polio]	[ATCC VR-1562]
††Rotavirus	[ATCC VR-899]

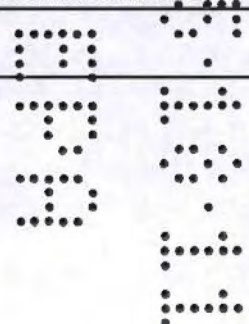
Viruses (enveloped):

30 second contact time:

††Avian Influenza virus	[H5N1 NIBRG-14]
††Bovine viral diarrhea virus (surrogate for Human Hepatitis C virus) [(HCV)]	
††Cytomegalovirus	[ATCC VR-538 [strain AD-169]]
††Duck Hepatitis B virus (DHBV) (surrogate for Human Hepatitis B virus) [(HBV)]	
††Hantavirus [(Prospect Hill virus)]	
††Herpes Simplex Virus type 1	[ATCC VR-260]
††Herpes Simplex Virus type 2	[ATCC VR-734]
††Human coronavirus	[ATCC VR-740 [strain 229-E]]
††Human Immunodeficiency virus (HIV) type 1 [(HIV-1)]	
††Human Influenza A virus	[A/PR/8/34 (H1N1)]
††Human Influenza B virus	[b/Lee40]
††Respiratory Syncytial Virus (RSV)	[ATCC VR-26]

10 minute contact time:

††SARS-Associated Coronavirus (SARS)	[CDC strain 200300592]
--------------------------------------	------------------------



Specific instructions for HIV-1, HBV and HCV:

To kill HIV-1, HBV and HCV:

This product kills HIV-1, HBV and HCV on precleaned environmental surfaces/objects previously soiled with blood/body fluids in health care settings (e.g. hospitals, nursing homes) or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS), Human Hepatitis B Virus (HBV) and Human Hepatitis C Virus (HCV).

Special instructions for using this product to clean and decontaminate against HIV-1 on surfaces/objects soiled with blood/body fluids:

Personal protection: When handling items soiled with blood or body fluids, use disposable latex gloves, gowns, masks and eye coverings.

Cleaning procedure: Blood and other body fluids must be thoroughly cleaned from surfaces and other objects before applying this product.

Disposal of infectious materials: Use disposable latex gloves, gowns, masks and eye coverings. Blood and other body fluids must be autoclaved and disposed of according to local regulations for infectious waste disposal.

Contact time: Spray -or- flood surface. Let stand 30 seconds. [Rinse -or- wipe clean.] [Allow to air dry.]

ENVIRONMENTAL TEXT:

[Important Facts about this product:]

- This can is made from an average of 25% recycled steel (10% post-consumer)
- Encourage your local authorities to establish a program to recycle this can
- [Please] Recycle empty container.

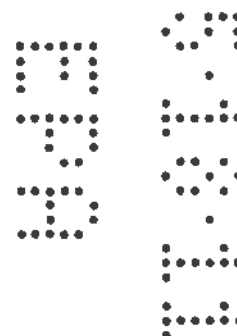


TABLE 1 Medical:

USE SITES

Ambulances -or- [Emergency Medical]
 Transport Vehicles
 Anesthesia Rooms -or- Areas
 [Assisted Living -or- Full Care] Nursing
 Homes
 CAT Lab[oratories]
 Central Service Areas
 Central Supply Rooms -or- Areas
 Critical Care Units -or- CCUs
 Doctor's Offices
 Donation Centers [blood] [plasma] [semen]
 [milk] [apharesis]
 Emergency Rooms -or- ERs
 Eye Surgical Centers
 Health Care Settings -or- Facilities
 Home Health Care [Settings]
 Hospices

Hospitals
 [Hospital] Kitchens
 Intensive Care Units -or- ICU[s] [areas]
 Laboratories
 Laundry Rooms
 Long Term Care Facilities
 [Medical] Clinics [Facilities]
 Medical Facilities
 Medical -or- Physician's -or- Doctor's
 Offices
 Newborn -or- Neonatal [Nurseries]
 [Intensive Care] Units [NICU]
 Nursing Homes
 Nursing -or- Nurses' Stations
 Operating Rooms
 Ophthalmic Offices
 Orthopedics

Outpatient [Surgical Centers (OPSC)]
 [Clinics] [Facilities]
 Patient Areas
 Patient Restrooms
 Patient Rooms
 [Pediatric] Examination Rooms -or- Areas
 Pediatric Intensive Care Units [PICU]
 Pharmacies
 Physicians' Offices
 Physical Therapy Rooms -or- Areas
 Psychiatric Facilities
 Public Areas
 Radiology -or- X-Ray Rooms -or- Areas
 Recovery Rooms
 Rehabilitation Centers
 Surgery Rooms -or- Operating Rooms
 -or- ORs
 Waiting Rooms -or- Waiting Areas

**HARD, NONPOROUS SURFACES
 ASSOCIATED WITH THE FOLLOWING**

anesthesia machines
 apharesis machines
 autoclaves
 bathroom doorknob
 bedpans
 bedpan cleaner
 bedrails
 [bedside] commodes
 bedside tables
 blood pressure cuffs
 blood pressure (BP) monitors
 cabinets
 call boxes
 CAT -or- Computerized Axial Tomography
 equipment
 carts
 chairs
 charging stations
 computer peripherals
 computer screens
 computer tables
 cords
 counters
 [crash] [emergency] carts
 diagnostic equipment

docking stations
 edges of privacy curtains
 [exam -or- examination] tables
 external surfaces of [medical] equipment
 -or- [medical] equipment surfaces
 [external] [surfaces of] ultrasound
 transducers [-and/or- probes]
 gurneys
 hard, nonporous hospital -or- medical
 surfaces
 [hospital -or- patient] bed(s) [springs]
 [railings] -or- linings -or- frames
 IV [stands] [pumps] [poles]
 keyboards
 large surfaces
 loupes
 mammography equipment
 medication carts
 mobile workstations
 mouse pads
 MRI -or- Magnetic Resonance Imaging
 equipment
 operating room tables and lights
 operating room light switches
 overbed tables
 paddles
 patient chairs

plastic -or- vinyl mattress covers
 patient monitoring equipment
 patient support and delivery equipment
 phlebotomy trays
 physical therapy (pt) equipment surfaces
 pulse oximeters
 PVC tubing
 reception counters -or- desks -or- areas
 remote controls
 respiratory therapy equipment
 scales
 sequential compression devices
 side rails
 slit lamps
 small surfaces
 spine backboards
 stethoscopes
 stools
 stretchers
 surfaces in and around toilets in patient
 rooms
 toilet handholds
 traction devices
 walls [around toilet] [in patient rooms]
 wash basins
 wheelchairs
 x-ray equipment

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

PERSONAL PROTECTIVE SAFETY EQUIPMENT

face shields
 goggles
 hard hats

protective headgear
 silicone rubber -or- PVC hearing protectors

spectacles
 vinyl covered earmuffs

Use on non-critical surfaces in:

TABLE 2 Dental:

USE SITES

Dental Offices
 Examination Rooms
 Dental Operatories
 Dental -or- Dentists' Offices

SURFACES

amalgamators -and/or- dental curing lights
 dental countertops
 dental operator surfaces
 dentists' -or- dental chairs

endodontic equipment such as apex locators
 hard, nonporous [environmental] dental
 surfaces
 light lens covers
 pulp testers and motors
 reception counters -or- desks -or- areas

TABLE 3 Veterinary and Farm:

USE SITES

Animal Life Science Laboratories
 Animal [Pet] Housing [Kennels] [Facilities]
 Animal Holding Areas
 [Animal -or- Pet] Grooming Facilities
 Animal Transportation Vehicles
 Breeding Establishments
 Equine Farms

Farms
 Kennels
 Livestock -and/or- Swine -and/or- Poultry
 Facilities
 Pet [Areas] [Quarters]
 Pet Shops -or- Stores
 Small Animal Facilities
 Tack Shops

Veterinary Clinics -or- Facilities
 Veterinary -or- Animal Hospitals
 Veterinary [Offices] [Waiting Rooms]
 Veterinary [Examination Rooms]
 Veterinary [X-ray Rooms]
 Veterinary [Operating Rooms]
 Zoos

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

SURFACES

animal equipment
 around troughs
 automatic feeder exteriors
 empty cages
 external surfaces of [veterinary] equipment

feed rack exteriors
 fountains
 hard, nonporous [environmental] veterinary
 surfaces
 pens

reception counters -or- desks -or- areas
 stalls
 veterinary care surfaces
 watering appliance exteriors

TABLE 4 Food Service:

USE SITES

Banquet Halls
 Bars
 Cafeterias
 Catering Facilities
 Commercial -or- Institutional Kitchens

Delis [Delicatessens]
 Fast Food Chains -or- Restaurants
 Food Preparation and Processing Areas
 Food [Service -or- Processing]
 Establishments
 Food Serving Areas

Other Food Service Establishments
 Restaurants
 School Kitchens

SURFACES

any washable (food and non-food contact)
 surface where disinfection is required
 appliances
 dish racks
 drain boards

food cases
 food trays
 freezers
 hoods
 microwave[s] [exteriors]
 oven[s] [exteriors]

plastic -or- metal outdoor furniture
 (excluding wood frames and upholstery)
 refrigerator[s] [exteriors]
 salad bar sneeze guards
 stoves -or- stovetops

TABLE 5 Miscellaneous/General:

USE SITES

Airplanes [Airports]
 Ambulances
 Athletic [Recreational] Facilities
 Automobiles
 Barber Shops
 Basements
 Bathrooms
 Bathroom -or- Locker Room
 Facilities
 Beauty Salons
 Bedrooms
 Blood Banks
 Boats
 Bowling Alleys
 Buses
 Butcher Shops
 Cafeterias
 Campers
 Cars
 Churches
 Colleges
 Convenience Stores
 Correctional Facilities
 [Damp] Storage Areas
 Day Care Centers
 Dens
 Dorms
 Dormitories
 Elevators
 Emergency Vehicles
 Factories
 Fast Food Restaurants
 [Food Processing] Plants
 Funeral Homes
 Garages
 [Garbage] [Waste] Storage Areas

Gas Stations
 Grocery Stores
 Gymnasiums -or- Gyms
 Health Club[s] [Facilities]
 Homes
 Home Centers
 Hotels
 Industrial Facilities
 Institutional Kitchens
 [Institutional] Laundromats
 Institutions
 Kennels
 Kitchen[s] [surfaces]
 Laboratories
 Laundromats
 Laundry Rooms
 Lavatories
 Locker Rooms
 Lodging Establishment
 Lounges
 Malls
 [Manufacturing] Plants
 Manufacturing Plants -or- Facilities
 Markets
 Mass Merchandisers, Discount Retailers
 -and/or- General Merchandise Stores
 Military Installations
 Mobile Homes
 Mortuaries
 Motels
 Motor Homes
 Mudrooms
 Nurseries
 Office[s] [Buildings]
 Pet Areas
 Pharmacies

Play Areas -or- Rooms
 Playgrounds
 [Police -and/or- Fire] Vehicles
 Produce Areas
 Public Areas
 Public Facilities
 Public Restrooms
 Public Telephone[s] [Booths]
 Recreational Centers -or- Facilities
 Rental Cars
 Rest Stops
 Restaurants
 Restrooms -or- Restroom Areas
 Retail businesses
 School Buses
 Schools
 Shelters
 Ships
 Shopping Centers
 Shops
 Shower Rooms
 Sports Arenas
 Storage Rooms -or- Areas
 Subways
 Supermarkets
 Toolsheds
 Transportation Terminals
 Trains
 Trolleys
 Universities
 Vacation Homes
 Warehouse Clubs

A potable water rinse is required for food
 contact surfaces.
 Do not use on glassware, utensils, or
 dishes.

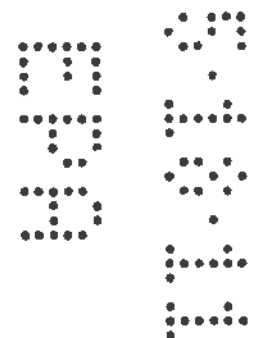


TABLE 5 Miscellaneous/General: continued

SURFACES

appliance exterior[s] [surfaces]	dressing carts	lockers	stainless steel
appliance -or- cabinet knobs	elevator buttons	[medicine] cabinets	stall doors
baked enamel	exercise machines	metal	staplers
bassinets	exhaust fans	metal blinds	stovetops -or- stoves
[bathroom] fixtures	exterior -or- external toilet	metal work benches	synthetic marble
[bathroom] [kitchen] faucet[s]	surfaces	microwave exterior	tables [tabletops]
[handles]	exterior -or- external urinal	office machinery	[tiled] walls
[bath]tubs	surfaces	office -or- bedroom -or-	tires
bed frames	exterior surfaces of	bedside furniture	[toilet [flush]] [telephone]
behind and under counters	urinals -and/or- toilets	other telecommunication	[cabinet]
behind and under sinks	faucets	equipment surfaces	[dishwasher] [door] handles
boats	fax machine[s] [handles]	outdoor grill exteriors	toilet -and/or- urinal exterior[s]
booster chairs	[filing] [medicine] cabinets	outdoor -or- patio furniture	[surfaces] -or- exterior toilet
burner trays	fixtures	oven doors	surfaces toilet[s] [handle]
cabinets	floors [around toilets]	pet areas -or- surfaces	[rims] [seats] [tops]
car interiors	furniture	phones	tools
carts	freezer exteriors	plastic laundry hampers -or-	towel dispensers
chairs	garage surfaces	baskets	toy boxes -or- storage bins
[children's] furniture	garbage -or- trash cans	plastic patio furniture	trailers
closets	glazed ceramic [restroom	-or- lawn chairs	[training] toilets
[clothes] [diaper] hampers	surfaces]	plastic shower curtains	trash cans -or- compactors
coated ceilings	glazed [ceramic] tile[s]	plastic surfaces associated with:	tray tables
[computer] keyboards	glazed porcelain [tiling -or- tile]	floors, walls, fixtures, toilets,	tubs
cooler exteriors	[grocery [store] -or-	urinals, sinks, shower rooms	urinals
counters -or- countertops	supermarket] carts	and locker rooms	vanity tops -or- vanities
cupboards	[grocery [store] -or-	playground equipment	vehicles
cribs	supermarket] cart handles	playpens	vending machine surfaces
crystal (non-food contact areas)	[grocery [store] -or-	portable toilet exteriors	[vinyl] linoleum -or- wallpaper
desk[s] [tops]	supermarket] cart child seats	[public -or- pay] telephones	walkers
[diaper -or- infant] changing	gym[nastic] equipment	-or- phone booths	walls
[tables] -or- areas [stations]	hampers	range hoods	[washable] floors [including
diaper pails	[hand]railings -or- rails	recycling bins	linoleum, no-wax, vinyl, and
dictating equipment [surfaces]	[hard] plastic -or- vinyl	refrigerator door handles	glazed ceramic tile]
[dining] [fast food] [kitchen]	headsets	refrigerator exterior	washable kitchen surfaces
[picnic] [play] [restaurant]	high chairs (non-food contact	RVs	[washable] walls
[tray] tables	areas)	sealed fiberglass	washers/dryers -or-
dining room surfaces	[kids'] play [structures]	shelves [and drawers]	washing machine exterior[s]
-and/or- tables -and/or- fast	[equipment] [furniture]	shower[s] [area] [curtains]	wastebaskets
food restaurant tables	[tables]	[doors] [stalls] [walls]	whirlpool tubs
door[s] [handle[s]] [frame[s]]	[kitchen] appliance exteriors	signs	window [blinds] [shades]
doorknobs	light fixtures -or- switches -or-	sink[s] [basins]	windshields
drain boards	panels	seats	wrestling mats
drawer pulls	linoleum	sports equipment	

SURFACE MATERIALS

[baked] enamel	glazed porcelain	sealed fiberglass
chrome	glazed tile	stainless steel
[common] hard, nonporous	laminated surfaces	synthetic marble
[household -or-	Marlite	vinyl [tile]
environmental] surfaces	plastic [laminated]	similar hard, nonporous
Formica	plexiglass	surfaces except for those
glazed ceramic [tile]	porcelain enamel	excluded by the label

Do Not Use On:
~~acrylic plastics~~
~~natural marble~~
~~painted surfaces~~
~~paper surfaces~~
~~[polished] wood~~
~~unfin~~
~~unfinished wood~~

Form approved. OMB No. 2070-0060, 2070-0057, 2070-0107, 2070-0122, 2070-0164.



United States
Environmental Protection Agency
Washington, DC 20460
Formulator's Exemption Statement
(40 CFR 152.85)

Applicant's Name and Address: Clorox Professional Products Company c/o PS&RC P.O. Box 493 Pleasanton, CA 94566-0803	EPA File Symbol/Registration Number
	67619-21
	Product Name
	Carb
Date of Confidential Statement of Formula (EPA Form 8570-4) May 2, 2011	

As an authorized representative of the applicant for registration of the product identified above, I certify that:

(1) This product contains the following active ingredient(s):

Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105)
Didecyl dimethyl ammonium chloride (69149)
Octyl decyl dimethyl ammonium chloride (69165)
Dioctyl dimethyl ammonium chloride (69166)

2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging another product which contains that active ingredient which is registered under FIFRA Section 3, is purchased by us from another person, and meet the requirements of 40 CFR section 158.50(e)(2) or (3).

(3) Indicate by checking (A) or (B) below which paragraph applies:

☒ (A) An accurate Confidential Statement of Formula (EPA FORM 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

OR

☐ (B) The Confidential Statement of Formula (CSF) (EPA FORM 8570-4) referenced above and on file with the EPA is complete, current, and accurate and contains the information required on the current CSF.

(4) The following active ingredients in this product qualify for the formulator's exemption.

Active Ingredient	Source Product Name	Registration Number
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105) Didecyl dimethyl ammonium chloride (69149) Octyl decyl dimethyl ammonium chloride (69165) Dioctyl dimethyl ammonium chloride (69166)		
Signature 	Name and Title J. Evelyn Lawson Senior Regulatory Information Scientist	Date May 26, 2011



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number
EE0078

Application for Pesticide - Section I

1. Company/Product Number 67619-21	2. EPA Product Manager Jacqueline McFarlane/34 (acting)	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Carb	PM# 34	
5. Name and Address of Applicant (Include ZIP Code) Clorox Professional Products Company c/o PS&RC; P. O. Box 493 Pleasanton, CA 94566-0803 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated May 24, 2010
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Submission of one final printed label to address Agency comments. All requested revisions were made with one exception, as agreed upon with the Agency. See cover letter for details.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container	<input type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product		<input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name J. Evelyn Lawson	Title Senior Regulatory Information Scientist	Telephone No. (Include Area Code) (925) 425-6842
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature <i>Elisa Estremera-Pasky</i>	3. Title Regulatory Scientist	
4. Typed Name Elisa Estremera-Pasky	5. Date August 6, 2010	



August 6, 2010

Ms. Jacqueline McFarlane, Product Manager 34 (acting)
U.S. Environmental Protection Agency
Document Processing Desk (NOTIF)
Office of Pesticide Programs -7504P
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Re: Carb, EPA Reg. No. 67619-21
OPP EE0078

Dear Ms. Campbell-McFarlane:

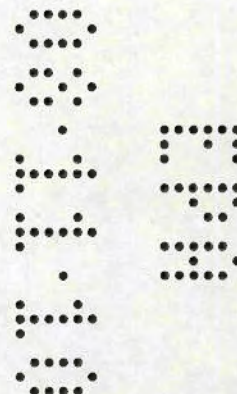
Clorox Professional Products Company is submitting a final printed label (FPL) for Carb® (EPA Reg. No. 67619-21) in response to the Agency's letter dated May 24, 2010. We have complied with all comments with the exception of the statements, "Nonrefillable container. Do not reuse or refill this container." As per your email communication on June 30, 2010 (see attached), you were in agreement that aerosol cans are exempt from this language per the amendment to the Container/Containment rule.

Thank you for reviewing the enclosed submission. If you have any questions, please contact me at 925-425-6199 or Evelyn Lawson at 925-425-6842.

Sincerely,

A handwritten signature in cursive script, reading "Elisa Estremera-Pasky".

Elisa Estremera-Pasky
Regulatory Scientist
Clorox Professional Products Company
CTCPSERC@Clorox.com





<Campbell-Mcfarlane.Jacqueline@epamail.epa.gov>
06/30/2010 05:51 AM

To <elisa.estremera@clorox.com>
cc
bcc

Subject Re: Fw: CARB (67619-21): accepted w/ comments Container rule language: aerosol cans are exempt from the non-refillable lang.

Hi, Elisa

Sorry. I am in agreement with your voicemail and email that aerosol cans are exempt for the statements, "Nonrefillable container. Do not reuse or refill this container." Please submit your final printed labels accordingly.

Regards,

Jacqueline McFarlane
EPA (7510P)
Antimicrobials Division
1200 Pennsylvania Ave, NW
Washington, DC 20460
(703) 308-6416
(703) 308-6467 (fax)

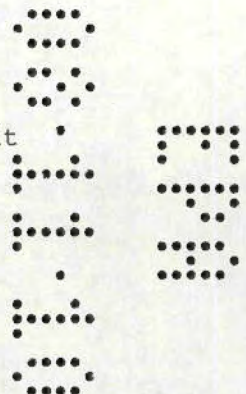
From: <elisa.estremera@clorox.com>
To: Jacqueline Campbell-McFarlane/DC/USEPA/US@EPA
Date: 06/29/2010 09:15 PM
Subject: Fw: CARB (67619-21): accepted w/ comments Container rule language: aerosol cans are exempt from the non-refillable lang.

Hello Jacqueline,

As per my voicemail, please let me know if you are in alignment with aerosol cans being exempt from the non-refillable language, "Nonrefillable container. Do not reuse or refill this container." per the amendment to the container/containment rule. I would like to submit the final printed label for the registration 67619-21 (CARB) without this text.

Thank you.

Elisa Estremera
Regulatory Scientist
The Clorox Company
7200 Johnson Dr.



Pleasanton, CA 94588-8004

phone: 925-425-6199

fax: 925-425-4496

----- Forwarded by Elisa Estremera/US-Corporate/Clorox on 06/29/2010
06:11 PM -----

Elisa
Estremera/US-Corp
orate/Clorox

06/15/2010 05:45
PM

campbell-mcfarlane.jacqueline@epa.gov

To

cc

Subject

Fw: CARB (67619-21): accepted w/ comments
Container rule language: aerosol cans are
exempt from the non-refillable lang.

Please let me know if I should reach out directly to Nancy Fitz/Dennis Edwards and the container label work group regarding the aerosol can exception from the non-refillable language. I'd like to get the label back into the Agency so we can move forward with the state submissions. Thank you.

Regards,

Elisa Estremera
Regulatory Scientist
The Clorox Company
7200 Johnson Dr.
Pleasanton, CA 94588-8004

phone: 925-425-6199

fax: 925-425-4496

----- Forwarded by Elisa Estremera/US-Corporate/Clorox on 06/15/2010
05:41 PM -----

Elisa
Estremera/US-Corpo
rate/Clorox

06/11/2010 12:51
PM

campbell-mcfarlane.jacqueline@epa.gov

To

cc

Subject

CARB (67619-21): accepted w/ comments
Container rule language: aerosol cans are
exempt from the non-refillable lang.

Hello Jacqueline,

Thank you for review and comment for our CARB (67619-17) registration. I have a quick question in response to the container rule language. Aerosol cans are exempt from the non-refillable language, "Nonrefillable container. Do not reuse or refill this container." per the amendment to the rule. I would like to submit the final printed without the non-refillable language, but need documentation that this will be acceptable so the states do not reject the label. Should I reach out to Nancy Fitz and the container label work group or would you confirm that it would be acceptable not to include the language. Please let me know. The approved label with comments is attached. Thank you!

Regards,

Elisa Estremera
Regulatory Scientist
The Clorox Company
7200 Johnson Dr.
Pleasanton, CA 94588-8004

phone: 925-425-6199

fax: 925-425-4496

This e-mail (including any attachments) may contain information confidential to The Clorox Company and is intended only for the use of the intended recipient(s). If the reader of this message is not the intended recipient(s), you are notified that you have received this message in error and that any review, dissemination, distribution or copying of this message is strictly prohibited. If you have received this message in error, please delete this message and notify the sender immediately. [attachment "67619 21 Stamped label_20100524.pdf" deleted by Jacqueline Campbell-McFarlane/DC/USEPA/US]

CARB

ACTIVE INGREDIENTS:

Octyl decyl dimethyl ammonium chloride.....	0.1890%
Dioctyl dimethyl ammonium chloride.....	0.0945%
Didecyl dimethyl ammonium chloride	0.0945%
Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chlorides	0.2520%
Ethanol	58.0600%
OTHER INGREDIENTS†:	41.3100%
TOTAL:	100.0000%

† This product contains sodium nitrite

KEEP OUT OF REACH OF CHILDREN

WARNING: See back panel for additional
precautionary statements.

NET WT. _____

NOT REVIEWED
In accordance with PR Notice 82-2,
Based on Draft Labeling Dated 5/24/17

This product must not result in the direct or indirect contamination of food products.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eye wear (safety glasses). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. If skin contact with product occurs, wash thoroughly with soap and water, especially prior to food handling and preparation. Remove or cover aquariums and cages before use.

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor for further treatment advice. Have the product container with you when calling a poison control center or doctor or going for treatment. Questions? Call 1-888-797-7225.

PHYSICAL HAZARDS: Flammable: Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130° Fahrenheit may cause bursting.

(Residential Use)

STORAGE AND DISPOSAL:

Store at temperatures below 130°F in a locked storage area inaccessible to children and persons unfamiliar with its use. **DO NOT PUNCTURE OR INCINERATE!** Offer for recycling; if not available, discard empty container in trash. If partially filled: Call your local solid waste agency for disposal instructions.

(Commercial/Institutional/Industrial Use)

STORAGE AND DISPOSAL:

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store at temperatures below 130° F in a locked storage area inaccessible to children and persons unfamiliar with its use.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling: **DO NOT PUNCTURE OR INCINERATE!** Offer for recycling; if not available, discard in trash. If partially filled: Call your local solid waste agency for disposal instructions.



Questions? Comments? Call toll-free 1-888-797-7225

Mfd. for Clorox Professional Products Company

1221 Broadway, Oakland, CA 94612

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EPA Reg. No. 67619-21

EPA Est. No. 58996-MO-1, 5813-CA-5, 71681-GA-1, IL-1, IL-2, 81368-OH-1

Made in [the] USA

Contains no phosphorus

Contains no CFCs or other

ozone depleting substances

Federal Regulations Prohibit

CFC Propellants in Aerosols

DISINFECTION

To Disinfect: Spray 6 to 10 inches from precleaned surface for 3-4 seconds -or- until thoroughly wet. Surface must remain wet for 10 minutes. A potable water rinse is required for food contact surfaces.

Do not use on glasses, dishes, or utensils.

Claims:

- Antibacterial [spray] [action] [formula]
- An effective disinfectant for use in the kitchen, bathroom, bedroom, and other areas
- Antibacterial [Formula]
- Antibacterial Formula Disinfects
- Antibacterial -or- Germicidal [on hard, nonporous surfaces] [for Kitchens and Bathrooms]
- Antibacterial -or- Germicidal [Formula]
- Antimicrobial
- Bactericidal
- [Bathroom] [Restroom] [Kitchen] disinfectant
- Broad Spectrum Hospital Disinfectant
- Disinfects & [and] Deodorizes
- Disinfectant
- Disinfectant [for Institutional Use]
- Disinfecting formula
- Disinfecting spray
- Disinfect[s]
- Disinfects [Germs]
- Disinfects [washable] kitchen surfaces including killing [99.9% of] germs -and/or- bacteria -and/or- viruses -and/or- fungi
- Easily disinfect
- For [Hospital] [Commercial] [Industrial] & Institutional Use
- For Healthcare Use
- For Hospital Use
- Fungicidal -or- Antifungal
- Germicidal
- Hospital disinfectant
- Kills 99.9% of Bacteria
- Kills [99.9% of] Germs
- Kills [99.9% of] [kitchen] [bathroom] bacteria
- Kills [99.9% of] ***see organism list***
- Kills Avian Influenza virus**
- Kills bacteria -or- germs -or- viruses on washable kitchen -and/or- bathroom surfaces and fixtures
- Kills bacteria -or- viruses
- Kills Flu Virus[+] [Influenza A virus]
- Kills [household] bacteria [without bleaching]
- Kills Influenza A virus [the virus that causes the common flu]
- Kills [Salmonella enterica] [kitchen bacteria]
- Leaves hard, nonporous surfaces sanitary -or- disinfected in 10 minutes
- Multi-purpose disinfectant [spray]
- Provides broad spectrum kill of Gram negative and Gram positive microorganisms

- Pseudomonacidal
- Ready to use disinfectant
- Ready to use formula provides disinfecting and deodorizing
- Spray
- Staphylocidal
- [This product] deodorizes and disinfects hard, nonporous surfaces -or- ***list any use sites: Tables 1-5***
- [This product] is a disinfectant that disinfects, and deodorizes in one labor saving step
- This product is a Broad Spectrum disinfectant, bactericidal according to the AOAC Germicidal Spray Products test method
- This product is effective against the pathogenic fungi Trichophyton mentagrophytes (Athlete's Foot Fungus) when used as directed for disinfection with a contact time of 1 minute on hard, nonporous surfaces in bathrooms, including shower stalls, floors, and glazed bathroom tiles
- [This product] kills 99.9% of bacteria & viruses
- [This product] kills bacteria, viruses and mold
- [This product] kills germs throughout the kitchen -or- restaurant -or- establishment -or- building on hard, nonporous surfaces plus controls mold growth
- This product meets AOAC Germicidal Spray Product Test efficacy standards for hospital disinfectants
- [This product] will disinfect hard, nonporous surfaces [***insert surface[s] from Tables 1-5***] [***use site[s] from Tables 1-5***]
- Use [this product] to disinfect nonporous [***insert use sites/surfaces from Tables 1-5***]. [Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (120°), and allow to air dry.
- Virucidal†† -or- Antiviral††
- [Virucidal††] [Bactericidal] [Pseudomonacidal] [Fungicidal] [Deodorizer]

**Kills Avian Influenza virus on precleaned hard, nonporous surfaces

†Influenza A virus

Germicidal against the following [organisms]: -or- [This product] kills the following [organisms]: -or- Disinfects against the following [organisms] -and/or- Fungicidal -and/or- Virucidal††:

Organisms:

See organism list

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

[Shake well.] For use on non-food contact surfaces only. For surfaces that may come in contact with food [such as countertops and high chairs], a potable water rinse is required. Do not use on glassware, utensils or dishes.

GENERAL CLAIMS

New[!] [& Improved] to be used as a claim descriptor only for the first 6 months of product on shelf

Claims:

- Do not use on [polished] wood, painted surfaces, acrylic plastics
- Bleach-free
- Clear formula
- Color fast
- Commercial Solutions®
- Contains no abrasives, harsh acids
- Contains no bleach
- Convenient
- Does not contain bleach
- Easy to use
- Eliminates -or- Removes [kitchen] [bathroom] odors
- For Professional Use
- For use in homes
- For use on both white and colored hard surfaces
- Formula for bathrooms -and/or- kitchens
- Great for everyday use [in the kitchen -or- bathroom]
- Great for Kitchen[s] -and/or- Bathroom[s] [too]
- [Great] For Everyday Use [in Kitchens and Bathrooms]
- Great in the Kitchen and Bathroom
- Institutional [size]
- Kitchen formula
- Made for kitchen surfaces and odors
- Multi-Surface
- No mixing
- No Unpleasant Odors
- Non-abrasive formula [will not scratch surfaces]
- Non-Chlorine Formula: Will not bleach clothing or colored surfaces
- Prevents [odors]
- Professional size
- Will not harm most hard, nonporous surfaces
- Will not harm Special -or- Premium Surfaces

DEODORIZATION

To deodorize: Spray on precleaned surfaces as needed.

Claims:

- Deodorizes -and/or- disinfects -or- helps deodorize
- Deodorizer [for Institutional Use]
- Deodorizes food odors [like garlic and onion] [left behind on kitchen surfaces] [after cooking]
- Eliminates mold odor[s]
- Eliminates odors caused by bacteria [and non-fresh foods]
- Eliminates -or- reduces [kitchen] odors [in the trash can -or- recycling bin odors -or- smells] [caused by germs or bacteria]
- Eliminates pet odors caused by germs or bacteria
- Kills odor causing bacteria in the kitchen -or- bathroom
- Kills odor causing bacteria -or- germs
- Kills -or- eliminates bacteria that cause [bad] odors
- [This product] deodorizes areas that are hard to keep fresh smelling, in the [insert use sites from Tables 1-5]
- [This product] will deodorize hard, nonporous surfaces [including [insert surface[s] from Tables 1-5] [use site[s] from Tables 1-5] [where obnoxious odors may develop]
- [This product] will deodorize surfaces in [insert site[s] from Tables 1-5]
- Removes -or- Eliminates odors

DYE & SCENT DESCRIPTORS AND CLAIMS:

- Contains no [dyes] [added colors]
- Dye-Free
- Free of Added -and/or- Dyes -and/or- Colors
- Free -or- clear of dyes
- Fresh scent formula
- Fresh Scented
- Has a fresh scent -or- fragrance -or- smell

MOLD

To control and prevent the growth of mold:

Spray precleaned surface until thoroughly wet. Surface must remain wet for 1 minute before wiping or air drying. Respray product as necessary for ongoing -or- continual control.

Claims:

- Controls [and] [prevents] mold growth
- Kills [and prevents the growth of] mold
- This product inhibits growth of mold

Organism:

1 minute contact time:

Trichophyton mentagrophytes [ATCC 9533]

Pandemic 2009 H1N1 Influenza A virus

Standard 2009 H1N1 Claims:

- Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by influenza A virus. This product (***Product Name***) is a broad-spectrum hard surface disinfectant that has been shown to be effective against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.
- This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- Kills Pandemic 2009 H1N1 influenza A virus (formerly called swine flu).
- Kills Pandemic 2009 H1N1 influenza A virus.

Alternate 2009 H1N1 Claims:

- Kills [2009] H1N1 [Flu Virus]
- Kills Germs -and/or- Flu Viruses [including [2009] H1N1]
- Kills [99.9%] of Germs including [2009] H1N1 [Flu Virus]
- Effective against [2009] H1N1 [Flu Virus]

DISINFECTION continued

Organisms:

[This product] kills germs: -or- Kills -or- Disinfects against the following bacteria, viruses, fungi:

ORGANISMS:

Bacteria:

3 minute contact time:

Acinetobacter baumannii	[ATCC 15308]
Burkholderia cepacia	[ATCC 25416]
Campylobacter jejuni	[ATCC 29428]
Carbapenem-Resistant Klebsiella pneumoniae	[ATCC BAA-1705]
Community-Associated Methicillin-Resistant Staphylococcus aureus (CA-MRSA 300)	[Genotype 300]
Community-Associated Methicillin-Resistant Staphylococcus aureus (CA-MRSA 400)	[Genotype 400] [Clinical Isolate 08005]
Corynebacterium diphtheriae	[ATCC 11913]
Enterobacter aerogenes	[ATCC 13048]
Enterobacter cloacae	[ATCC 35549]
Enterococcus faecalis	[ATCC 29212]
Escherichia coli (E.coli)	[ATCC 11229]
Escherichia coli O157:H7	[ATCC 35150]
ESBL (Extended Spectrum Beta Lactamase) producing Escherichia coli (ESBL producing E. coli)	[ATCC BAA-196]
Extended Spectrum Beta Lactamase producing Klebsiella pneumoniae [(ESBL producing Klebsiella pneumoniae)]	[ATCC 700603]
Klebsiella oxytoca	[ATCC 43165]
Klebsiella pneumoniae	[ATCC 4352]
Legionella pneumophila	[ATCC 33153]
Listeria monocytogenes	[ATCC 19111]
Methicillin-Resistant Staphylococcus aureus (MRSA 100)	[Genotype USA 100 NARSA NRS382]
Methicillin-Resistant Staphylococcus aureus (MRSA 200)	[Genotype USA 200 NARSA NRS383]
Methicillin-Resistant Staphylococcus aureus	[ATCC 33591]
Multidrug-Resistant Klebsiella pneumoniae	[ATCC 51503]
Penicillin-Resistant Streptococcus pneumoniae	[ATCC 700671]
Proteus mirabilis	[ATCC 7002]
Proteus vulgaris	[ATCC 27973]
Pseudomonas aeruginosa	[ATCC 15442]
Pseudomonas putida	[ATCC 12633]
Salmonella enterica	[ATCC 10708]
Salmonella enterica [serovar – paratyphi B]	[ATCC 8759]
Salmonella enteritidis	[ATCC 13076]
Salmonella typhi	[ATCC 6539]
Serratia marcescens	[ATCC 14756]
Shigella dysenteriae	[ATCC 13313]
Staphylococcus aureus	[ATCC 6538]
Stenotrophomonas maltophilia	[ATCC 13637]
Streptococcus pneumoniae	[ATCC 33400]
Streptococcus pyogenes	[ATCC 19615]
Vancomycin-Resistant Enterococcus faecalis (VRE)	[ATCC 51299]

5 minute contact time:

Mycobacterium bovis (BCG) -or- TB

DISINFECTION continued

Fungi:

3 minute contact time:

1 minute contact time:

Candida albicans	[ATCC 10231]
Candida glabrata	[ATCC 2001]
Trichophyton mentagrophytes	[ATCC 9533]

Viruses (non-enveloped):

30 second contact time:

††Rhinovirus 39	[ATCC VR-340]
-----------------	---------------

10 minute contact time:

††Adenovirus type 2	[ATCC VR-846]
††Adenovirus type 14	[ATCC VR-15]
††Coxsackievirus B3	[ATCC VR-30]
††Echovirus type 12	[ATCC VR-42]
††Feline calicivirus (surrogate for Norovirus)	[ATCC VR-782]
††Hepatitis A virus	
††Poliovirus [type 1] [Polio]	[ATCC VR-1562]
††Rotavirus	[ATCC VR-899]

Viruses (enveloped):

30 second contact time:

††Avian Influenza virus	[H5N1 NIBRG-14]
††Bovine viral diarrhea virus (surrogate for Human Hepatitis C virus)	
††Cytomegalovirus	[ATCC VR-538 [strain AD-169]]
††Duck Hepatitis B virus (DHBV) (surrogate for Human Hepatitis B virus)	
††Hantavirus [(Prospect Hill virus)]	
††Herpes Simplex Virus type 1	[ATCC VR-260]
††Herpes Simplex Virus type 2	[ATCC VR-734]
††Human coronavirus	[ATCC VR-740 [strain 229-E]]
††Human Immunodeficiency virus (HIV) type 1	
††Human Influenza A virus	[A/PR/8/34 (H1N1)]
††Human Influenza B virus	[b/Lee40]
††Respiratory Syncytial Virus (RSV)	[ATCC VR-26]

10 minute contact time:

††SARS-Associated Coronavirus (SARS)	[CDC strain 200300592]
--------------------------------------	------------------------

ENVIRONMENTAL TEXT:

[Important Facts about this product:]

- This can is made from an average of 25% recycled steel (10% post-consumer)

- Encourage your local authorities to establish a program to recycle this can
- [Please] Recycle empty container.

TABLE 1 Medical:

USE SITES

Ambulances -or- [Emergency Medical]
Transport Vehicles
Anesthesia Rooms -or- Areas
[Assisted Living -or- Full Care] Nursing
Homes
CAT Lab[oratories]
Central Service Areas
Central Supply Rooms -or- Areas
Critical Care Units -or- CCUs
Doctor's Offices
Donation Centers [blood] [plasma] [semen]
[milk] [apheresis]
Emergency Rooms -or- ERs
Eye Surgical Centers
Health Care Settings -or- Facilities
Home Health Care [Settings]
Hospices

Hospitals
[Hospital] Kitchens
Intensive Care Units -or- ICU[s] [areas]
Laboratories
Laundry Rooms
Long Term Care Facilities
[Medical] Clinics [Facilities]
Medical Facilities
Medical -or- Physician's -or- Doctor's
Offices
Newborn -or- Neonatal [Nurseries]
[Intensive Care] Units [NICU]
Nursing Homes
Nursing -or- Nurses' Stations
Operating Rooms
Ophthalmic Offices
Orthopedics

Outpatient [Surgical Centers (OPSC)]
[Clinics] [Facilities]
Patient Areas
Patient Restrooms
Patient Rooms
[Pediatric] Examination Rooms -or- Areas
Pediatric Intensive Care Units [PICU]
Pharmacies
Physicians' Offices
Physical Therapy Rooms -or- Areas
Psychiatric Facilities
Public Areas
Radiology -or- X-Ray Rooms -or- Areas
Recovery Rooms
Rehabilitation Centers
Surgery Rooms -or- Operating Rooms
-or- ORs
Waiting Rooms -or- Waiting Areas

**HARD, NONPOROUS SURFACES
ASSOCIATED WITH THE FOLLOWING**

anesthesia machines
apheresis machines
autoclaves
bathroom doorknob
bedpans
bedpan cleaner
bedrails
[bedside] commodes
bedside tables
blood pressure cuffs
blood pressure (BP) monitors
cabinets
call boxes
CAT -or- Computerized Axial Tomography
equipment
carts
chairs
charging stations
computer peripherals
computer screens
computer tables
cords
counters
[crash] [emergency] carts
diagnostic equipment

docking stations
edges of privacy curtains
[exam -or- examination] tables
external surfaces of [medical] equipment
-or- [medical] equipment surfaces
[external] [surfaces of] ultrasound
transducers [-and/or- probes]
gurneys
hard, nonporous hospital -or- medical
surfaces
[hospital -or- patient] bed(s) [springs]
[railings] -or- linings -or- frames
IV [stands] [pumps] [poles]
keyboards
large surfaces
loupes
mammography equipment
medication carts
mobile workstations
mouse pads
MRI -or- Magnetic Resonance Imaging
equipment
operating room tables and lights
operating room light switches
overbed tables
paddles
patient chairs

plastic -or- vinyl mattress covers
patient monitoring equipment
patient support and delivery equipment
phlebotomy trays
physical therapy (pt) equipment surfaces
pulse oximeters
PVC tubing
reception counters -or- desks -or- areas
remote controls
respiratory therapy equipment
scales
sequential compression devices
side rails
slit lamps
small surfaces
spine backboards
stethoscopes
stools
stretchers
surfaces in and around toilets in patient
rooms
toilet handholds
traction devices
walls [around toilet] [in patient rooms]
wash basins
wheelchairs
x-ray equipment

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

PERSONAL PROTECTIVE SAFETY EQUIPMENT

face shields	protective headgear	spectacles
goggles	silicone rubber -or- PVC hearing protectors	vinyl covered earmuffs
hard hats		

Use on non-critical surfaces in:

TABLE 2 Dental:

USE SITES

Dental Offices
 Examination Rooms
 Dental Operatories
 Dental -or- Dentists' Offices

SURFACES

amalgamators -and/or- dental curing lights
 dental countertops
 dental operator surfaces
 dentists' -or- dental chairs

endodontic equipment such as apex locators
 hard, nonporous [environmental] dental
 surfaces
 light lens covers
 pulp testers and motors
 reception counters -or- desks -or- areas

TABLE 3 Veterinary and Farm:

USE SITES

Animal Life Science Laboratories
 Animal [Pet] Housing [Kennels] [Facilities]
 Animal Holding Areas
 [Animal -or- Pet] Grooming Facilities
 Animal Transportation Vehicles
 Breeding Establishments
 Equine Farms

Farms
 Kennels
 Livestock -and/or- Swine -and/or- Poultry
 Facilities
 Pet [Areas] [Quarters]
 Pet Shops -or- Stores
 Small Animal Facilities
 Tack Shops

Veterinary Clinics -or- Facilities
 Veterinary -or- Animal Hospitals
 Veterinary [Offices] [Waiting Rooms]
 Veterinary [Examination Rooms]
 Veterinary [X-ray Rooms]
 Veterinary [Operating Rooms]
 Zoos

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

SURFACES

animal equipment
 around troughs
 automatic feeder exteriors
 empty cages
 external surfaces of [veterinary] equipment

feed rack exteriors
 fountains
 hard, nonporous [environmental] veterinary
 surfaces
 pens

reception counters -or- desks -or- areas
 stalls
 veterinary care surfaces
 watering appliance exteriors

TABLE 4 Food Service:

USE SITES

Banquet Halls
 Bars
 Cafeterias
 Catering Facilities
 Commercial -or- Institutional Kitchens

Delis [Delicatessens]
 Fast Food Chains -or- Restaurants
 Food Preparation and Processing Areas
 Food [Service -or- Processing]
 Establishments
 Food Serving Areas

Other Food Service Establishments
 Restaurants
 School Kitchens

SURFACES

any washable (food and non-food contact)
 surface where disinfection is required
 appliances
 dish racks
 drain boards

food cases
 food trays
 freezers
 hoods
 microwave[s] [exteriors]
 oven[s] [exteriors]

plastic -or- metal outdoor furniture
 (excluding wood frames and upholstery)
 refrigerator[s] [exteriors]
 salad bar sneeze guards
 stoves -or- stovetops

TABLE 5 Miscellaneous/General:

USE SITES

Airplanes [Airports]
 Ambulances
 Athletic [Recreational] Facilities
 Automobiles
 Barber Shops
 Basements
 Bathrooms
 Bathroom -or- Locker Room
 Facilities
 Beauty Salons
 Bedrooms
 Blood Banks
 Boats
 Bowling Alleys
 Buses
 Butcher Shops
 Cafeterias
 Campers
 Cars
 Churches
 Colleges
 Convenience Stores
 Correctional Facilities
 [Damp] Storage Areas
 Day Care Centers
 Dens
 Dorms
 Dormitories
 Elevators
 Emergency Vehicles
 Factories
 Fast Food Restaurants
 [Food Processing] Plants
 Funeral Homes
 Garages
 [Garbage] [Waste] Storage Areas

Gas Stations
 Grocery Stores
 Gymnasiums -or- Gyms
 Health Club[s] [Facilities]
 Homes
 Home Centers
 Hotels
 Industrial Facilities
 Institutional Kitchens
 [Institutional] Laundromats
 Institutions
 Kennels
 Kitchen[s] [surfaces]
 Laboratories
 Laundromats
 Laundry Rooms
 Lavatories
 Locker Rooms
 Lodging Establishment
 Lounges
 Malls
 [Manufacturing] Plants
 Manufacturing Plants -or- Facilities
 Markets
 Mass Merchandisers, Discount Retailers
 -and/or- General Merchandise Stores
 Military Installations
 Mobile Homes
 Mortuaries
 Motels
 Motor Homes
 Mudrooms
 Nurseries
 Office[s] [Buildings]
 Pet Areas
 Pharmacies

Play Areas -or- Rooms
 Playgrounds
 [Police -and/or- Fire] Vehicles
 Produce Areas
 Public Areas
 Public Facilities
 Public Restrooms
 Public Telephone[s] [Booths]
 Recreational Centers -or- Facilities
 Rental Cars
 Rest Stops
 Restaurants
 Restrooms -or- Restroom Areas
 Retail businesses
 School Buses
 Schools
 Shelters
 Ships
 Shopping Centers
 Shops
 Shower Rooms
 Sports Arenas
 Storage Rooms -or- Areas
 Subways
 Supermarkets
 Toolsheds
 Transportation Terminals
 Trains
 Trolleys
 Universities
 Vacation Homes
 Warehouse Clubs

A potable water rinse is required for food
 contact surfaces.
 Do not use on glassware, utensils, or
 dishes.

TABLE 5 Miscellaneous/General: continued

SURFACES

appliance exterior[s] [surfaces]	dresser carts	lockers	stainless steel
appliance -or- cabinet knobs	elevator buttons	[medicine] cabinets	stall doors
baked enamel	exercise machines	metal	staplers
bassinets	exhaust fans	metal blinds	stovetops -or- stoves
[bathroom] fixtures	exterior -or- external toilet	metal work benches	synthetic marble
[bathroom] [kitchen] faucet[s]	surfaces	microwave exterior	tables [tabletops]
[handles]	exterior -or- external urinal	office machinery	[tiled] walls
[bath]tubs	surfaces	office -or- bedroom -or-	tires
bed frames	exterior surfaces of	bedside furniture	[toilet [flush]] [telephone]
behind and under counters	urinals -and/or- toilets	other telecommunication	[cabinet]
behind and under sinks	faucets	equipment surfaces	[dishwasher] [door] handles
boats	fax machine[s] [handles]	outdoor grill exteriors	toilet -and/or- urinal exterior[s]
booster chairs	[filing] [medicine] cabinets	outdoor -or- patio furniture	[surfaces] -or- exterior toilet
burner trays	fixtures	oven doors	surfaces toilet[s] [handle]
cabinets	floors [around toilets]	pet areas -or- surfaces	[rims] [seats] [tops]
car interiors	furniture	phones	tools
carts	freezer exteriors	plastic laundry hampers -or-	towel dispensers
chairs	garage surfaces	baskets	toy boxes -or- storage bins
[children's] furniture	garbage -or- trash cans	plastic patio furniture	trailers
closets	glazed ceramic [restroom	-or- lawn chairs	[training] toilets
[clothes] [diaper] hampers	surfaces]	plastic shower curtains	trash cans -or- compactors
coated ceilings	glazed [ceramic] tile[s]	plastic surfaces associated with:	tray tables
[computer] keyboards	glazed porcelain [tiling -or- tile]	floors, walls, fixtures, toilets,	tubs
cooler exteriors	[grocery [store] -or-	urinals, sinks, shower rooms	urinals
counters -or- countertops	supermarket] carts	and locker rooms	vanity tops -or- vanities
cupboards	[grocery [store] -or-	playground equipment	vehicles
cribs	supermarket] cart handles	playpens	vending machine surfaces
crystal (non-food contact areas)	[grocery [store] -or-	portable toilet exteriors	[vinyl] linoleum -or- wallpaper
desk[s] [tops]	supermarket] cart child seats	[public -or- pay] telephones	walkers
[diaper -or- infant] changing	gym[nastic] equipment	-or- phone booths	walls
[tables] -or- areas [stations]	hampers	range hoods	[washable] floors [including
diaper pails	[hand]railings -or- rails	recycling bins	linoleum, no-wax, vinyl, and
dictating equipment [surfaces]	[hard] plastic -or- vinyl	refrigerator door handles	glazed ceramic tile]
[dining] [fast food] [kitchen]	headsets	refrigerator exterior	washable kitchen surfaces
[picnic] [play] [restaurant]	high chairs (non-food contact	RVs	[washable] walls
[tray] tables	areas)	sealed fiberglass	washers/dryers -or-
dining room surfaces	[kids'] play [structures]	shelves [and drawers]	washing machine exterior[s]
-and/or- tables -and/or- fast	[equipment] [furniture]	shower[s] [area] [curtains]	wastebaskets
food restaurant tables	[tables]	[doors] [stalls] [walls]	whirlpool tubs
door[s] [handle[s]] [frame[s]]	[kitchen] appliance exteriors	signs	window [blinds] [shades]
doorknobs	light fixtures -or- switches -or-	sink[s] [basins]	windshields
drain boards	panels	seats	wrestling mats
drawer pulls	linoleum	sports equipment	

SURFACE MATERIALS

[baked] enamel	glazed porcelain	sealed fiberglass	Do Not Use On:
chrome	glazed tile	stainless steel	acrylic plastics
[common] hard, nonporous	laminated surfaces	synthetic marble	natural marble
[household -or-	Marlite	vinyl [tile]	painted surfaces
environmental] surfaces	plastic [laminated]	similar hard, nonporous	paper surfaces
Formica	plexiglass	surfaces except for those	[polished] wood
glazed ceramic [tile]	porcelain enamel	excluded by the label	rubber
			unfinished wood

Material to be added to an e-Jacket/Jacket

Reg. No. 67619-21

1. ☐ Placement within the e-Jacket/jacket:
- ☐ Default: (chronological, top/newest)
 - ☐ Description: (PDF page number, i.e., "before page 45")
- _____
- _____

2. ☒ Send to Data Extraction contractors this material:

- ☒ Newly stamped accepted label
- ☐ Notification
- ☐ New CSF
- ☐ Other: _____

3. Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer's Name: Killian Swift

Phone: _____ Division: AD

Date: 5/24/2010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

MAY 24 2010

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Ms. Elisa Estremera-Pasky
Clorox Professional Products Company
c/o PS&RC
PO Box 493
Pleasanton, CA 94566-0803

Subject: CARB
EPA Registration Number: 67619-21
Application Date: January 15, 2010
Receipt Date: January 19, 2010

Dear Ms. Estremera-Pasky

The following amendment submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide (FIFRA) section 3(c)(7)(A) is acceptable with conditions.

Proposed Action:

Add 49 microorganisms to label

Conditions

Revise the label as follows:

1. The "Storage and Disposal" statements on page 1 must be revised to be in compliance with the Container Rule by stating the following:

(Residential Use)

Storage and Disposal

Store at temperatures below 130oF in a locked storage area in accessible to children and persons unfamiliar with its use. Nonrefillable container. Do not reuse or refill this container. DO NOT PUNCTURE OR INCINERATE! Offer for recycling. If not available, discard empty container in trash. If partially filled: Call your local solid waste agency or [toll free number which meets the criteria in paragraph II.E] for disposal instructions.

(Commercial/Institutional/Industrial Use)

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store at temperatures below 130oF in a locked storage area in accessible to children and persons unfamiliar with its use.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

SYMBOL							
SURNAME							
DATE							

Container Handling: Nonrefillable container. Do not reuse or refill this container. DO NOT PUNCTURE OR INCINERATE! Offer for recycling. If not available, discard empty container in trash. If partially filled: Call your local solid waste agency or [toll free number which meets the criteria in paragraph II.E] for disposal instructions.

2. Revise the 20th bullet in the left column under "Disinfection" on page 3 by deleting "[Only]".
3. Revise the 7th bullet in the right column under "Disinfection" on page 3 by deleting the phrase, "no rinse because a potable water rinse is required when disinfecting food contact surfaces such the surfaces listed in Table 4 "Food Service" on page 8.
4. The terms, "Virucidal" and "Antiviral," are unqualified terms that appear throughout the label. You must add an asterisk or designating symbol that refers users to the viruses this product mitigates on page 6.
5. The list of surface materials on page 10 of the proposed label lists "painted surfaces" and also identifies "painted surfaces" under the "Do Not Use On" section. This needs to be corrected.

Data Summary

Data Requirement	Means of Support	Status
AOAC Germicidal Spray Test- CAMRSA	Submitted study, MRID 47957901	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – MDR K. pneumoniae	Submitted study, MRID 47957902	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – S. pyogenes	Submitted study, MRID 47957903	Acceptable, RTU- 5% soil for 3 min.
Virucidal Effectiveness Test -HIV	Submitted study, MRID 47957904	Acceptable, RTU – 5% soil for 30 seconds
Virucidal Effectiveness Test - RSV	Submitted study, MRID 47957905	Acceptable, RTU – 5% soil for 30 seconds
Virucidal Effectiveness Test – SARS associated w/ Coronavirus	Submitted study, MRID 47957906	Acceptable, RTU – 5% soil for 10 minutes
Confirmatory Virucidal Effectiveness Test - DHBV	Submitted study, MRID 47957907	Acceptable, RTU-100% soil for 30 seconds
Virucidal Effectiveness Test – Coxsackievirus B3	Submitted study, MRID 47957908	Acceptable, RTU – 5% soil for 10 minutes
AOAC Germicidal Spray Test – B. cepacia	Submitted study, MRID 47957909	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – C. diphtheriae	Submitted study, MRID 47957910	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – E. coli	Submitted study, MRID 47957911	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test –E. cloacae	Submitted study, MRID 47957912	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test –K. oxytoca	Submitted study, MRID 47957913	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – L. monocytogenes	Submitted study, MRID 47957914	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – P. mirabilis	Submitted study, MRID 47957915	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – P. vulgaris	Submitted study, MRID 47957916	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – S. enterica – serovar paratyphi B	Submitted study, MRID 47957917	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – S. typhi	Submitted study, MRID 47957918	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – S. marcescens	Submitted study, MRID 47957919	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – S. dysenteriae	Submitted study, MRID 47957920	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – S. maltophilia	Submitted study, MRID 47957921	
Virucidal Effectiveness Test- Adenovirus type 14	Submitted study, MRID 47957922	Acceptable, RTU – 5% soil for 10 minutes
Virucidal Effectiveness Test – Hepatitis A Virus	Submitted study, MRID 47957923	Acceptable, RTU – 5% soil for 10 minutes

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

Data Requirement	Means of Support	Status
AOAC Germicidal Spray Test – C. albicans	Submitted study, MRID 47957924	Acceptable, RTU – 5% soil for 1 min.
AOAC Tuberculocidal Activity - M. bovis (BCG)	Submitted study, MRID 47957925	Acceptable, RTU on pre-cleaned surfaces for 5 minutes
Initial Virucidal Effectiveness Test – Feline Calicivirus Norovirus/Norwalk Surrogate	Submitted study, MRID 47957926	Acceptable, RTU – 5% soil for 10 minutes
Initial Virucidal Effectiveness Test – Hepatitis B Virus (DHBV)	Submitted study, MRID 47957927	Acceptable, RTU-100% soil for 30 seconds
Confirmatory Virucidal Effectiveness Test – Feline Calicivirus	Submitted study, MRID 47957928	Acceptable, RTU – 5% soil for 10 minutes
Virucidal Effectiveness Test – Rotavirus	Submitted study, MRID 47957929	Acceptable, RTU – 5% soil for 10 minutes
AOAC Germicidal Spray Test – C. jejuni	Submitted study, MRID 47957930	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – E. aerogenes	Submitted study, MRID 47957931	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – E. faecalis	Submitted study, MRID 47957932	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – K. pneumoniae	Submitted study, MRID 47957933	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – ESBL pneumoniae	Submitted study, MRID 47957934	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – L. pneumophila	Submitted study, MRID 47957935	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – P. putida	Submitted study, MRID 47957936	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – S. enteritidis	Submitted study, MRID 47957937	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – S. pneumoniae	Submitted study, MRID 47957938	Acceptable, RTU- 5% soil for 3 min.
Virucidal Effectiveness Test - Hantavirus	Submitted study, MRID 47957939	Acceptable, RTU – 5% soil for 30 seconds
Virucidal Effectiveness Test – Adenovirus Type 2	Submitted study, MRID 47957940	Acceptable, RTU – 5% soil for 10 minutes
Virucidal Effectiveness Test – Echovirus Type 12	Submitted study, MRID 47957941	Acceptable, RTU – 5% soil for 10 minutes
Virucidal Effectiveness Test – Herpes Simplex Virus Type 1	Submitted study, MRID 47957942	Acceptable, RTU – 5% soil for 30 seconds
Virucidal Effectiveness Test – Herpes Simplex Virus Type 2	Submitted study, MRID 47957943	Acceptable, RTU – 5% soil for 30 seconds
Virucidal Effectiveness Test – Human Coronavirus	Submitted study, MRID 47957944	Acceptable, RTU – 5% soil for 30 seconds
Virucidal Effectiveness Test – Human Influenza B Virus	Submitted study, MRID 47957945	Acceptable, RTU – 5% soil for 30 seconds
Virucidal Effectiveness Test - Cytomegalovirus	Submitted study, MRID 47957946	Acceptable, RTU – 5% soil for 30 seconds
AOAC Germicidal Spray Test – C. glabrata	Submitted study, MRID 47957947	Acceptable, RTU – 5% soil for 1 min.
AOAC Germicidal Spray Test – Penicillium – resistant S. pneumoniae	Submitted study, MRID 47957948	Acceptable, RTU- 5% soil for 3 min.
AOAC Germicidal Spray Test – Carbapenem K. pneumoniae	Submitted study, MRID 47957949	Acceptable, RTU- 5% soil for 3 min.

General Comments

A stamped label acceptable with conditions is enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3 (c) (5) and section 4 (a) when the Agency requires all registrants of similar products to submit such data.

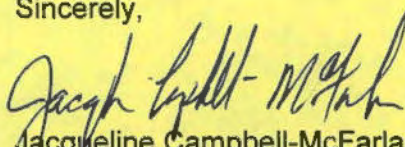
If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6 (e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

SYMBOL							
SURNAME							
DATE							

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

If you have further questions concerning this letter, then please contact me by telephone at (703) 308-6416 or by e-mail at campbell-mcfarlane.jacqueline@epa.gov or Killian Swift by telephone at (703) 308-6346 or by email at swift.killian@epa.gov. When you are submitting information or data in response to this letter, send copy of this letter to accompany the submission in order to facilitate processing.

Sincerely,



Jacqueline Campbell-McFarlane
Product Manager 34
Regulatory Management Branch II
Antimicrobials Division (7510P)

Enclosure: Stamped label with conditions
Efficacy Data Evaluation

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

CARB

ACTIVE INGREDIENTS:

Octyl decyl dimethyl ammonium chloride.....	0.1890%
Dioctyl dimethyl ammonium chloride.....	0.0945%
Didecyl dimethyl ammonium chloride.....	0.0945%
Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chlorides.....	0.2520%
Ethanol.....	58.0600%
OTHER INGREDIENTS†.....	41.3100%
TOTAL:.....	100.0000%

† This product contains sodium nitrite

KEEP OUT OF REACH OF CHILDREN

WARNING: See back panel for additional precautionary statements.

NET WT.

ACCEPTED
with COMMENTS
EPA Letter Dated:
MAY 24 2010
Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No.
67619-21

This product must not result in the direct or indirect contamination of food products.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eye wear (safety glasses). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. If skin contact with product occurs, wash thoroughly with soap and water, especially prior to food handling and preparation. Remove or cover aquariums and cages before use.

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor for further treatment advice. Have the product container with you when calling a poison control center or doctor or going for treatment. Questions? Call 1-888-797-7225.

PHYSICAL HAZARDS: Flammable: Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130° Fahrenheit may cause bursting.

STORAGE AND DISPOSAL: Pesticide Storage and Disposal: Do not contaminate water, food, or feed by storage and disposal. Store at temperatures below 130° Fahrenheit. **Container Disposal:** Do not puncture or incinerate. Do not reuse empty container. [Please] recycle empty container or discard in trash.

-or-

This container may be recycled in aerosol recycling centers. At present, there are only a few such centers in the U.S. Before offering for recycling, empty the can by using the product according to the label. (DO NOT PUNCTURE!) If recycling is not available, wrap the container and discard in the trash.

-or-

Empty the can by using the product according to the label. (DO NOT PUNCTURE) Some recycling centers accept these steel containers. Otherwise, wrap container and discard in trash.



Questions? Comments? Call toll-free 1-888-797-7225

Mfd. for Clorox Professional Products Company

1221 Broadway, Oakland, CA 94612

© 2009 The Clorox Company

EPA Reg. No. 67619-21

EPA Est. No. 58996-MO-1, 5813-CA-5, 71681-GA-1, IL-1, IL-2, 81368-OH-1

Made in [the] USA

Contains no phosphorus

Contains no CFCs or other

ozone depleting substances

Federal Regulations Prohibit

CFC Propellants in Aerosols

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

[Shake well.] For use on non-food contact surfaces only. For surfaces that may come in contact with food [such as countertops and high chairs], a potable water rinse is required. Do not use on glassware, utensils or dishes.

GENERAL CLAIMS

New[!] [& Improved] to be used as a claim descriptor only for the first 6 months of product on shelf

Claims:

- Do not use on [polished] wood, painted surfaces, acrylic plastics
- Bleach-free
- Clear formula
- Color fast
- Commercial Solutions®
- Contains no abrasives, harsh acids
- Contains no bleach
- Convenient
- Does not contain bleach
- Easy to use
- Eliminates -or- Removes [kitchen] [bathroom] odors
- For Professional Use
- For use in homes
- For use on both white and colored hard surfaces
- Formula for bathrooms -and/or- kitchens

- Great for everyday use [in the kitchen -or- bathroom]
- Great for Kitchen[s] -and/or- Bathroom[s] [too]
- [Great] For Everyday Use [in Kitchens and Bathrooms]
- Great in the Kitchen and Bathroom
- Institutional [size]
- Kitchen formula
- Made for kitchen surfaces and odors
- Multi-Surface
- No mixing
- No Unpleasant Odors
- Non-abrasive formula [will not scratch surfaces]
- Non-Chlorine Formula: Will not bleach clothing or colored surfaces
- Prevents [odors]
- Professional size
- Will not harm most hard, nonporous surfaces
- Will not harm Special -or- Premium Surfaces

DEODORIZATION

To deodorize: Spray on precleaned surfaces as needed.

Claims:

- Deodorizes -and/or- disinfects -or- helps deodorize
- Deodorizer [for Institutional Use]
- Deodorizes food odors [like garlic and onion] [left behind on kitchen surfaces] [after cooking]
- Eliminates mold odor[s]
- Eliminates odors caused by bacteria [and non-fresh foods]
- Eliminates -or- reduces [kitchen] odors [in the trash can -or- recycling bin odors -or- smells] [caused by ~~germs~~ or bacteria]
- Eliminates pet odors caused by ~~germs~~ or bacteria

- Kills odor causing bacteria in the kitchen -or- bathroom
- Kills odor causing bacteria ~~on germs~~
- Kills -or- eliminates bacteria that cause [bad] odors
- [This product] deodorizes areas that are hard to keep fresh smelling, in the [insert use sites from Tables 1-5]
- [This product] will deodorize hard, nonporous surfaces [including [insert surface[s] from Tables 1-5] [use site[s] from Tables 1-5] [where obnoxious odors may develop]
- [This product] will deodorize surfaces in [insert site[s] from Tables 1-5]
- Removes -or- Eliminates odors

DYE & SCENT DESCRIPTORS AND CLAIMS:

- Contains no [dyes] [added colors]
- Dye-Free
- Free of Added -and/or- Dyes -and/or- Colors
- Free -or- clear of dyes

- Fresh scent formula
- Fresh Scented
- Has a fresh scent -or- fragrance -or- smell

MOLD

To control and prevent the growth of mold:

Spray precleaned surface until thoroughly wet. Surface must remain wet for 1 minute before wiping or air drying. Respray product as necessary for ongoing -or- continual control.

Claims:

- Controls [and] [prevents] mold growth
- Kills [and prevents the growth of] mold
- This product inhibits growth of mold

Organism:

1 minute contact time:

Trichophyton mentagrophytes [ATCC 9533]

DISINFECTION

To Disinfect: Spray 6 to 10 inches from precleaned surface for 3-4 seconds -or- until thoroughly wet. Surface must remain wet for 10 minutes. A potable water rinse is required for food contact surfaces.

Do not use on glasses, dishes, or utensils.

Claims:

- Antibacterial [spray] [action] [formula]
- An effective disinfectant for use in the kitchen, bathroom, bedroom, and other areas
- Antibacterial [Formula]
- Antibacterial Formula Disinfects
- Antibacterial -or- Germicidal [on hard, nonporous surfaces] [for Kitchens and Bathrooms]
- Antibacterial -or- Germicidal [Formula]
- Antimicrobial
- Bactericidal
- [Bathroom] [Restroom] [Kitchen] disinfectant
- Broad Spectrum Hospital Disinfectant
- Disinfects & [and] Deodorizes
- Disinfectant
- Disinfectant [for Institutional Use]
- Disinfecting formula
- Disinfecting spray
- Disinfect[s]
- Disinfects [Germs]
- Disinfects [washable] kitchen surfaces including killing [99.9% of] germs -and/or- bacteria -and/or- viruses -and/or- fungi
- Easily disinfect
- For [Hospital] [Commercial] [Industrial] & Institutional Use ~~[Only]~~
- For Healthcare Use
- For Hospital Use
- Fungicidal -or- Antifungal
- Germicidal
- Hospital disinfectant
- Kills 99.9% of Bacteria
- Kills [99.9% of] Germs
- Kills [99.9% of] [kitchen] [bathroom] bacteria
- Kills [99.9% of] *see organism list*
- Kills Avian Influenza virus**
- Kills bacteria -or- germs -or- viruses on washable kitchen -and/or- bathroom surfaces and fixtures
- Kills bacteria -or- viruses
- Kills Flu Virus[†] [Influenza A virus]
- Kills [household] bacteria [without bleaching]
- Kills Influenza A virus [; the virus that causes the common flu]
- Kills [Salmonella enterica] [kitchen bacteria]
- Leaves hard, nonporous surfaces sanitary -or- disinfected in 10 minutes
- Multi-purpose disinfectant [spray]
- Provides broad spectrum kill of Gram negative and Gram positive microorganisms

- Pseudomonacidal
- Ready to use disinfectant
- Ready to use formula provides disinfecting and deodorizing
- Spray
- Staphylocidal
- [This product] deodorizes and disinfects hard, nonporous surfaces -or- *list any use sites: Tables 1-5*
- [This product] is a no rinse disinfectant that disinfects, and deodorizes in one labor saving step
- This product is a Broad Spectrum disinfectant, bactericidal according to the AOAC Germicidal Spray Product Test method
- This product is effective against the pathogenic fungi Trichophyton mentagrophytes (Athlete's Foot Fungus) when used as directed for disinfection with a contact time of 1 minute on hard, nonporous surfaces in bathrooms, including shower stalls, floors, and glazed bathroom tiles
- [This product] kills 99.9% of bacteria & viruses
- [This product] kills bacteria, viruses and mold
- [This product] kills germs throughout the kitchen -or- restaurant -or- establishment -or- building on hard, nonporous surfaces plus controls mold growth
- This product meets AOAC Germicidal Spray Product Test efficacy standards for hospital disinfectants
- [This product] will disinfect hard, nonporous surfaces *[[insert surface[s] from Tables 1-5] [use site[s] from Tables 1-5]]*
- Use [this product] to disinfect nonporous *[[insert use sites/surfaces from Tables 1-5].* [Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (120°), and allow to air dry.
- Virucidal -or- Antiviral
- [Virucidal] [Bactericidal] [Pseudomonacidal] [Fungicidal] [Deodorizer]

**Kills Avian Influenza virus on precleaned hard, nonporous surfaces

†Influenza A virus

Germicidal against the following [organisms]: -or- [This product] kills the following [organisms]: -or- Disinfects against the following [organisms] -and/or- Fungicidal -and/or- Virucidal:

Organisms:

See organism list

Pandemic 2009 H1N1 Influenza A virus

Standard 2009 H1N1 Claims:

- Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by influenza A virus. This product (***Product Name***) is a broad-spectrum hard surface disinfectant that has been shown to be effective against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.
- This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- Kills Pandemic 2009 H1N1 influenza A virus (formerly called swine flu).
- Kills Pandemic 2009 H1N1 influenza A virus.

Alternate 2009 H1N1 Claims:

- Kills [2009] H1N1 [Flu Virus]
- Kills Germs -and/or- Flu Viruses [including [2009] H1N1]
- Kills [99.9%] of Germs including [2009] H1N1 [Flu Virus]
- Effective against [2009] H1N1 [Flu Virus]

DISINFECTION continued



































Organisms:

[This product] kills germs: -or- Kills -or- Disinfects against the following bacteria, viruses, fungi:

ORGANISMS:

Bacteria:

3 minute contact time:

Acinetobacter baumannii	[ATCC 15308]	
Burkholderia cepacia	[ATCC 25416]	
Campylobacter jejuni	[ATCC 29428]	
Carbapenem-Resistant Klebsiella pneumoniae	[ATCC BAA-1705]	
Community-Associated Methicillin-Resistant Staphylococcus aureus (CA-MRSA 300)	[Genotype 300]	
Community-Associated Methicillin-Resistant Staphylococcus aureus (CA-MRSA 400)	[Genotype 400] [Clinical isolate 08005]	
Corynebacterium diphtheriae	[ATCC 11813]	
Enterobacter aerogenes	[ATCC 13048]	
Enterobacter cloacae	[ATCC 35549]	
Enterococcus faecalis	[ATCC 29212]	
Escherichia coli (E.coli)	[ATCC 11229]	
Escherichia coli O157:H7	[ATCC 35150]	
ESBL (Extended Spectrum Beta Lactamase) producing Escherichia coli (ESBL producing E. coli)	[ATCC BAA-196]	
Extended Spectrum Beta Lactamase producing Klebsiella pneumoniae [(ESBL producing Klebsiella pneumoniae)]	[ATCC 700603]	
Klebsiella oxytoca	[ATCC 43165]	
Klebsiella pneumoniae	[ATCC 4352]	
Legionella pneumophila	[ATCC 33153]	
Listeria monocytogenes	[ATCC 19111]	
Methicillin-Resistant Staphylococcus aureus (MRSA 100)	[Genotype USA 100 NARSA NRS382]	
Methicillin-Resistant Staphylococcus aureus (MRSA 200)	[Genotype USA 200 NARSA NRS383]	
Methicillin-Resistant Staphylococcus aureus	[ATCC 33591]	
Multidrug-Resistant Klebsiella pneumoniae	[ATCC 51503]	
Penicillin-Resistant Streptococcus pneumoniae	[ATCC 700671]	
Proteus mirabilis	[ATCC 7002]	
Proteus vulgaris	[ATCC 27973]	
Pseudomonas aeruginosa	[ATCC 15442]	
Pseudomonas putida	[ATCC 12633]	
Salmonella enterica	[ATCC 10708]	
Salmonella enterica [serovar - paratyphi B]	[ATCC 8759]	
Salmonella enteritidis	[ATCC 13076]	
Salmonella typhi	[ATCC 6539]	
Serratia marcescens	[ATCC 14756]	
Shigella dysenteriae	[ATCC 13313]	
Staphylococcus aureus	[ATCC 6538]	
Stenotrophomonas maltophilia	[ATCC 13637]	
Streptococcus pneumoniae	[ATCC 33400]	
Streptococcus pyogenes	[ATCC 19615]	
Vancomycin-Resistant Enterococcus faecalis (VRE)	[ATCC 51299]	

5 minute contact time:

Mycobacterium bovis (BCG) -or- TB

DISINFECTION *continued*

Fungi:

3 minute contact time:

1 minute contact time:

Candida albicans

[ATCC 10231]

Candida glabrata

[ATCC 2001]

Trichophyton mentagrophytes

[ATCC 9533]

Viruses (non-enveloped):

30 second contact time:

Rhinovirus 39

[ATCC VR-340]

10 minute contact time:

Adenovirus type 2

[ATCC VR-846]

Adenovirus type 14

[ATCC VR-15]

Coxsackievirus B3

[ATCC VR-30]

Echovirus type 12

[ATCC VR-42]

Feline calicivirus (surrogate for Norovirus)

[ATCC VR-782]

Hepatitis A virus

Poliovirus [type 1] [Polio]

[ATCC VR-1562]

Rotavirus

[ATCC VR-899]

Viruses (enveloped):

30 second contact time:

Avian Influenza virus

[H5N1 NIBRG-14]

Bovine viral diarrhea virus (surrogate for Human Hepatitis C virus)

Cytomegalovirus

[ATCC VR-538 [strain AD-169]]

Duck Hepatitis B virus (DHBV) (surrogate for Human Hepatitis B virus)

Hantavirus [(Prospect Hill virus)]

Herpes Simplex Virus type 1

[ATCC VR-260]

Herpes Simplex Virus type 2

[ATCC VR-734]

Human coronavirus

[ATCC VR-740 [strain 229-E]]

Human Immunodeficiency virus (HIV) type 1

Human Influenza A virus

[A/PR/8/34 (H1N1)]

Human Influenza B virus

[b/Lee40]

Respiratory Syncytial Virus (RSV)

[ATCC VR-26]

10 minute contact time:

SARS-Associated Coronavirus (SARS)

[CDC strain 200300592]

ENVIRONMENTAL TEXT:

[Important Facts about this product:]

- This can is made from an average of 25% recycled steel (10% post-consumer)

- Encourage your local authorities to establish a program to recycle this can
- [Please] Recycle empty container.

USE SITES

TABLE 1 Medical:

Ambulances -or- [Emergency Medical]
Transport Vehicles
Anesthesia Rooms -or- Areas
[Assisted Living -or- Full Care] Nursing
Homes
CAT Lab[oratories]
Central Service Areas
Central Supply Rooms -or- Areas
Critical Care Units -or- CCUs
Doctor's Offices
Donation Centers [blood] [plasma] [semen]
[milk] [apheresis]
Emergency Rooms -or- ERs
Eye Surgical Centers
Health Care Settings -or- Facilities
Home Health Care [Settings]
Hospices

Hospitals
[Hospital] Kitchens
Intensive Care Units -or- ICU[s] [areas]
Laboratories
Laundry Rooms
Long Term Care Facilities
[Medical] Clinics [Facilities]
Medical Facilities
Medical -or- Physician's -or- Doctor's
Offices
Newborn -or- Neonatal [Nurseries]
[Intensive Care] Units [NICU]
Nursing Homes
Nursing -or- Nurses' Stations
Operating Rooms
Ophthalmic Offices
Orthopedics

Outpatient [Surgical Centers (OPSC)]
[Clinics] [Facilities]
Patient Areas
Patient Restrooms
Patient Rooms
[Pediatric] Examination Rooms -or- Areas
Pediatric Intensive Care Units [PICU]
Pharmacies
Physicians' Offices
Physical Therapy Rooms -or- Areas
Psychiatric Facilities
Public Areas
Radiology -or- X-Ray Rooms -or- Areas
Recovery Rooms
Rehabilitation Centers
Surgery Rooms -or- Operating Rooms
-or- ORs
Waiting Rooms -or- Waiting Areas

HARD, NONPOROUS SURFACES ASSOCIATED WITH THE FOLLOWING

anesthesia machines
apheresis machines
autoclaves
bathroom doorknob
bedpans
bedpan cleaner
bedrails
[bedside] commodes
bedside tables
blood pressure cuffs
blood pressure (BP) monitors
cabinets
call boxes
CAT -or- Computerized Axial Tomography
equipment
carts
chairs
charging stations
computer peripherals
computer screens
computer tables
cords
counters
[crash] [emergency] carts
diagnostic equipment

docking stations
edges of privacy curtains
[exam -or- examination] tables
external surfaces of [medical] equipment
-or- [medical] equipment surfaces
[external] [surfaces of] ultrasound
transducers [-and/or- probes]
gurneys
hard, nonporous hospital -or- medical
surfaces
[hospital -or- patient] bed(s) [springs]
[railings] -or- linings -or- frames
IV [stands] [pumps] [poles]
keyboards
large surfaces
loupes
mammography equipment
medication carts
mobile workstations
mouse pads
MRI -or- Magnetic Resonance Imaging
equipment
operating room tables and lights
operating room light switches
overbed tables
paddles
patient chairs

plastic -or- vinyl mattress covers
patient monitoring equipment
patient support and delivery equipment
phlebotomy trays
physical therapy (pt) equipment surfaces
pulse oximeters
PVC tubing
reception counters -or- desks -or- areas
remote controls
respiratory therapy equipment
scales
sequential compression devices
side rails
slit lamps
small surfaces
spine backboards
stethoscopes
stools
stretchers
surfaces in and around toilets in patient
rooms
toilet handholds
traction devices
walls [around toilet] [in patient rooms]
wash basins
wheelchairs
x-ray equipment

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

PERSONAL PROTECTIVE SAFETY EQUIPMENT

face shields	protective headgear	spectacles
goggles	silicone rubber -or- PVC hearing protectors	vinyl covered earmuffs
hard hats		

Use on non-critical surfaces in:

TABLE 2 Dental:

USE SITES

Dental Offices
Examination Rooms
Dental Operatories
Dental -or- Dentists' Offices

SURFACES

amalgamators -and/or- dental curing lights
dental countertops
dental operatory surfaces
dentists' -or- dental chairs

endodontic equipment such as apex locators
hard, nonporous [environmental] dental surfaces
light lens covers
pulp testers and motors
reception counters -or- desks -or- areas

TABLE 3 Veterinary and Farm:

USE SITES

Animal Life Science Laboratories
Animal [Pet] Housing [Kennels] [Facilities]
Animal Holding Areas
[Animal -or- Pet] Grooming Facilities
Animal Transportation Vehicles
Breeding Establishments
Equine Farms

Farms
Kennels
Livestock -and/or- Swine -and/or- Poultry Facilities
Pet [Areas] [Quarters]
Pet Shops -or- Stores
Small Animal Facilities
Tack Shops

Veterinary Clinics -or- Facilities
Veterinary -or- Animal Hospitals
Veterinary [Offices] [Waiting Rooms]
Veterinary [Examination Rooms]
Veterinary [X-ray Rooms]
Veterinary [Operating Rooms]
Zoos

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

SURFACES

animal equipment
around troughs
automatic feeder exteriors
empty cages
external surfaces of [veterinary] equipment

feed rack exteriors
fountains
hard, nonporous [environmental] veterinary surfaces
pens

reception counters -or- desks -or- areas
stalls
veterinary care surfaces
watering appliance exteriors

TABLE 4 Food Service:

USE SITES

Banquet Halls
Bars
Cafeterias
Catering Facilities
Commercial -or- Institutional Kitchens

Delis [Delicatessens]
Fast Food Chains -or- Restaurants
Food Preparation and Processing Areas
Food [Service -or- Processing] Establishments
Food Serving Areas

Other Food Service Establishments
Restaurants
School Kitchens

SURFACES

any washable (food and non-food contact) surface where disinfection is required
appliances
dish racks
drain boards

food cases
food trays
freezers
hoods
microwave[s] [exteriors]
oven[s] [exteriors]

plastic -or- metal outdoor furniture (excluding wood frames and upholstery)
refrigerator[s] [exteriors]
salad bar sneeze guards
stoves -or- stovetops

TABLE 5 Miscellaneous/General:

USE SITES

Airplanes [Airports]
Ambulances
Athletic [Recreational] Facilities
Automobiles
Barber Shops
Basements
Bathrooms
Bathroom -or- Locker Room
Facilities
Beauty Salons
Bedrooms
Blood Banks
Boats
Bowling Alleys
Buses
Butcher Shops
Cafeterias
Campers
Cars
Churches
Colleges
Convenience Stores
Correctional Facilities
[Damp] Storage Areas
Day Care Centers
Dens
Dorms
Dormitories
Elevators
Emergency Vehicles
Factories
Fast Food Restaurants
[Food Processing] Plants
Funeral Homes
Garages
[Garbage] [Waste] Storage Areas

Gas Stations
Grocery Stores
Gymnasiums -or- Gyms
Health Club[s] [Facilities]
Homes
Home Centers
Hotels
Industrial Facilities
Institutional Kitchens
[Institutional] Laundromats
Institutions
Kennels
Kitchen[s] [surfaces]
Laboratories
Laundromats
Laundry Rooms
Lavatories
Locker Rooms
Lodging Establishment
Lounges
Malls
[Manufacturing] Plants
Manufacturing Plants -or- Facilities
Markets
Mass Merchandisers, Discount Retailers
-and/or- General Merchandise Stores
Military Installations
Mobile Homes
Mortuaries
Motels
Motor Homes
Mudrooms
Nurseries
Office[s] [Buildings]
Pet Areas
Pharmacies

Play Areas -or- Rooms
Playgrounds
[Police -and/or- Fire] Vehicles
Produce Areas
Public Areas
Public Facilities
Public Restrooms
Public Telephone[s] [Booths]
Recreational Centers -or- Facilities
Rental Cars
Rest Stops
Restaurants
Restrooms -or- Restroom Areas
Retail businesses
School Buses
Schools
Shelters
Ships
Shopping Centers
Shops
Shower Rooms
Sports Arenas
Storage Rooms -or- Areas
Subways
Supermarkets
Toolsheds
Transportation Terminals
Trains
Trolleys
Universities
Vacation Homes
Warehouse Clubs

A potable water rinse is required for food contact surfaces.
Do not use on glassware, utensils, or dishes.

TABLE 5 Miscellaneous/General: continued

SURFACES

appliance exterior[s] [surfaces]	elevator buttons	linoleum	stainless steel
appliance -or- cabinet knobs	exercise machines	lockers	stall doors
baked enamel	exhaust fans	[medicine] cabinets	staplers
bassinets	exterior -or- external toilet surfaces	metal	stovetops -or- stoves
[bathroom] fixtures	exterior -or- external urinal surfaces	metal blinds	synthetic marble
[bathroom] [kitchen] faucet[s] [handles]	exterior surfaces of urinals -and/or- toilets	metal work benches	tables [tabletops]
[bath]tubs	faucets	microwave exterior	[tiled] walls
bed frames	fax machine[s] [handles]	office machinery	tires
behind and under counters	[filing] [medicine] cabinets	office -or- bedroom -or- bedside furniture	[toilet flush] [telephone]
behind and under sinks	finished hardwood	other telecommunication equipment surfaces	[cabinet] [dishwasher] [door] handles
boats	finished -or- painted woodwork	outdoor grill exteriors	toilet -and/or- urinal exterior[s]
booster chairs	finished windowsills	outdoor -or- patio furniture	[surfaces] -or- exterior toilet surfaces
burner trays	fixtures	oven doors	toilet[s] [handle] [rims] [seats] [tops]
cabinets	floors [around toilets]	pet areas -or- surfaces	tools
car interiors	furniture	phones	towel dispensers
carts	freezer exteriors	plastic laundry hampers -or- baskets	toy boxes -or- storage bins
chairs	garage surfaces	plastic patio furniture -or- lawn chairs	trailers
[children's] furniture	garbage -or- trash cans	plastic shower curtains	[training] toilets
closets	glazed ceramic [restroom surfaces]	plastic surfaces associated with: floors, walls, fixtures, toilets, urinals, sinks, shower rooms and locker rooms	trash cans -or- compactors
[clothes] [diaper] hampers	glazed [ceramic] tile[s]	playground equipment	tray tables
coated ceilings	glazed porcelain [tiling -or- tile]	playpens	tubs
[computer] keyboards	[grocery [store] -or- supermarket] carts	portable toilet exteriors	urinals
cooler exteriors	[grocery [store] -or- supermarket] cart handles	[public -or- pay] telephones	vanity tops -or- vanities
counters -or- countertops	[grocery [store] -or- supermarket] cart child seats	-or- phone booths	vehicles
cupboards	gym[nastic] equipment	range hoods	vending machine surfaces
cribs	hampers	recycling bins	[vinyl] linoleum -or- wallpaper
crystal (non-food contact areas)	[hand]railings -or- rails	refrigerator door handles	walkers
desk[s] [tops]	[hard] plastic -or- vinyl	refrigerator exterior	walls
[diaper -or- infant] changing [tables] -or- areas [stations]	headsets	RVs	[washable] floors [including linoleum, no-wax, vinyl, and glazed ceramic tile]
diaper pails	high chairs (non-food contact areas)	sealed fiberglass	washable kitchen surfaces
dictating equipment [surfaces]	[kids'] play [structures] [equipment] [furniture] [tables]	shelves [and drawers]	[washable] walls
[dining] [fast food] [kitchen] [picnic] [play] [restaurant] [tray] tables	[kitchen] appliance exteriors	shower[s] [area] [curtains] [doors] [stalls] [walls]	washers/dryers -or- washing machine exterior[s]
dining room surfaces -and/or- tables -and/or- fast food restaurant tables	light fixtures -or- switches -or- panels	signs	wastebaskets
door[s] [handle[s]] [frame[s]]		sink[s] [basins]	whirlpool tubs
doorknobs		seats	window [blinds] [shades]
drain boards		sports equipment	windshields
drawer pulls			wrestling mats
dressing carts			

SURFACE MATERIALS

[baked] enamel	glazed tile	stainless steel	Do Not Use On:
chrome	laminated surfaces	synthetic marble	acrylic plastics
[common] hard, nonporous [household -or- environmental] surfaces	Marlite	vinyl [tile]	natural marble
Formica	painted surfaces	similar hard, nonporous surfaces except for those excluded by the label	painted surfaces
glazed ceramic [tile]	plastic [laminate]		paper surfaces
glazed porcelain	plexiglass		[polished] wood
	porcelain enamel		rubber
	sealed fiberglass		unfinished wood



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

April 5, 2010

MEMORANDUM

Subject: Efficacy Review for CARB;
EPA Reg. No. 67619-21; DP Barcode: D373906

From: Marcie Tidd, Microbiologist *Marcie Tidd*
Product Science Branch *4/21/10*
Antimicrobials Division (7510P)

Thru: Tajah Blackburn, Team Leader
Product Science Branch
Antimicrobials Division (7510P)

Tajah Blackburn, Acting Chief
Product Science Branch
Antimicrobials Division (7510P)

To: Jacqueline McFarlane 34 / Killian Swift
Regulatory Management Branch II
Antimicrobials Division (7510P)

Applicant: Clorox Professional Products Company
c/o PS&RC; P.O. Box 493
Pleasanton, CA 94566

Formulation from the Label:

<u>Active Ingredient(s)</u>	<u>% by wt.</u>
Octyl decyl dimethyl ammonium chloride.....	0.1890%
Dioctyl dimethyl ammonium chloride.....	0.0945%
Didecyl dimethyl ammonium chloride.....	0.0945%
Alkyl (50% C ₁₄ , 40% C ₁₂ , 10% C ₁₆) dimethyl benzyl ammonium chlorides.....	0.2520%
Ethanol.....	58.0600%
<u>Other Ingredients</u>	<u>41.3100%</u>
<u>Total</u>	<u>100.0000%</u>

I. BACKGROUND

The product, Carb (Reg. No. 67619-21), is an Agency-approved disinfectant (bactericide, fungicide, virucide), and deodorizer for use on hard, non-porous surfaces in household, commercial, institutional, industrial, food service, animal care, and hospital or medical environments. The applicant requested to amend the registration of this product to add new claims for effectiveness as a disinfectant against additional microorganisms, including *Mycobacterium bovis* BCG. Studies were conducted at MICROBIOTEST, located at 105 Carpenter Drive in Sterling, VA 20164.

This data package contained a letter from the applicant to EPA (dated January 15, 2010), Form 8570-1 (Application for Pesticide), Form 8570-4 (Confidential Statement of Formula), Form 8570-34 (Certification with Respect to Citation of Data), Form 8570-35 (Data Matrix), forty nine studies (MRID 479589-01 through 479589-49), Statements of No Data Confidentiality Claims for all forty nine studies, and the proposed label.

II. USE DIRECTIONS

The product is designed for disinfecting hard, non-porous surfaces, including: anesthesia machines, animal equipment, aphaeresis machines, appliance exteriors, appliance knobs, autoclaves, bathtubs, bed frames, bed rails, bedpans, blinds, blood pressure cuffs, cabinet knobs, cabinets, cages, carts, charging stations, cooler exteriors, computer keyboards, computer peripherals, computer screens, counter tops, cords, counters, cupboards, diagnostic equipment, diaper changing stations, diaper pails, dictating equipment, dish racks, docking stations, door handles, doorknobs, drain boards, drawer pulls, elevator buttons, endodontic equipment, equipment surfaces, exercise machines, exhaust fans, faucets, fax machines, feed rack exteriors, fixtures, floors, food cases, food trays, furniture, garbage cans, grocery carts, gurneys, gymnastic equipment, hampers, hand rails, handles, head sets, hospital equipment, IV poles and stands, keyboards, light switches, lights, lockers, mattress covers, medical equipment surfaces, mobile workstations, monitors, mouse pads, office machinery, outdoor furniture, outdoor grill surfaces, paddles, patient monitoring equipment, patient support and delivery equipment, patio furniture, pens, personal protective safety equipment, playground equipment, play structures, privacy curtain edges, railings, recycling bins, remote controls, scales, seats, shelves, shower curtains and doors, shower stalls, signs, sinks, sneeze guards, spine backboards, sports equipment, stalls, stethoscopes, stools, storage bins, stretchers, telecommunication equipment, telephones, tires, toilet handholds, toilets, tools, towel dispensers, toy boxes, trays, trash cans, ultrasound transducers, urinals, vanity tops, veterinary equipment, walkers, wallpaper, walls, wash basins, waste baskets, watering appliance exteriors, wheelchairs, whirlpool tubs, windowsills, work benches, and wrestling mats. The proposed label indicates that the product may be used on hard, non-porous surfaces including: baked enamel, crystal, finished hardwood, Formica, glazed ceramic, glazed porcelain, glazed tiles, laminate, linoleum, Marlite, metal (e.g., chrome, stainless steel), painted surfaces, painted woodwork, plastic (e.g., vinyl), Plexiglas, sealed fiberglass, and synthetic marble.

Directions on the proposed label provide the following information regarding use of the product as a disinfectant: Spray 6-10 inches from pre-cleaned surface for 3-4 seconds or until

wet. Surfaces must remain wet for 10 minutes. A potable water rinse is required for food contact surfaces.

III. AGENCY STANDARDS FOR PROPOSED CLAIMS

Disinfectants for Use on Hard Surfaces in Hospital or Medical Environments (Additional Bacteria)

Effectiveness of disinfectants against specific bacteria other than those named in the AOAC Use-Dilution Method, AOAC Germicidal Spray Products as Disinfectants Method, AOAC Fungicidal Test, and AOAC Tuberculocidal Activity Method, must be determined by either the AOAC Use-Dilution Method or the AOAC Germicidal Spray Products as Disinfectants Method. Ten carriers must be tested against each specific microorganism with each of 2 product samples, representing 2 different product lots. To support products labeled as "disinfectants" for specific bacteria (other than those bacteria named in the above test methods), killing of the specific microorganism on all carriers is required.

Disinfectants for Use as Fungicides (Against Pathogenic Fungi, Using the AOAC Germicidal Spray Products as Disinfectants Method)

The effectiveness of liquid disinfectants against specific pathogenic fungi must be supported by efficacy data using an appropriate test. The AOAC Germicidal Spray Products as Disinfectants Method contains procedures for testing fungicidal activity. Ten carriers on each of 2 product samples representing 2 different product lots must be employed in the test. Killing of the specific pathogenic fungi on all carriers is required.

Note: As an interim policy, EPA is accepting studies with dried carrier counts that are at least 10^4 for *Trichophyton mentagrophytes*, *Aspergillus niger*, and *Candida albicans*. EPA recognizes laboratories are experiencing problems in maintaining dried carrier counts at the 10^6 level. This interim policy will be in effect until EPA determines that the laboratories are able to achieve consistent carrier counts at the 10^6 level.

Disinfectants for Use as Tuberculocides (Using the AOAC Tuberculocidal Activity of Disinfectants Test Method)

Disinfectants may bear additional label claims of effectiveness as tuberculocides when supported by appropriate tuberculocidal effectiveness data. Certain chemical classes (i.e., glutaraldehyde and quaternary ammonium compounds) are required to undergo validation testing in addition to basic testing. Products that are formulated with other chemical groups do not require validation testing. When using the existing or modified AOAC Tuberculocidal Activity Test Methods, 10 carriers for each of 2 samples, representing 2 different product lots, must be tested against *Mycobacterium bovis* BCG (a member of the *Mycobacterium tuberculosis* species complex). Killing on all carriers/slides as demonstrated in Modified Proskauer-Beck Broth, and no growth in any of the inoculated tubes of 2 additional media (i.e., Middlebrook 7H9 Broth Difco B, Kirchners Medium, and/or TB Broth Base) is required.

Virucides

The effectiveness of virucides against specific viruses must be supported by efficacy data that simulates, to the extent possible in the laboratory, the conditions under which the product is intended to be used. Carrier methods that are modifications of either the AOAC Use-Dilution Method (for liquid disinfectants) or the AOAC Germicidal Spray Products as Disinfectants Method (for spray disinfectants) must be used. To simulate in-use conditions, the specific virus to be treated must be inoculated onto hard surfaces, allowed to dry, and then treated with the product according to the directions for use on the product label. One surface for each of 2 different product lots of disinfectant must be tested against a recoverable virus titer of at least 10^4 from the test surface for a specified exposure period at room temperature. Then, the virus must be assayed by an appropriate virological technique, using a minimum of four determinations per each dilution assayed. Separate studies are required for each virus. The calculated viral titers must be reported with the test results. For the data to be considered acceptable, results must demonstrate complete inactivation of the virus at all dilutions. When cytotoxicity is evident, at least a 3-log reduction in titer must be demonstrated beyond the cytotoxic level.

Virucides – Novel Virus Protocol Standards

To ensure that a virus protocol has been adequately validated, data should be provided from at least 2 independent laboratories for each product tested (i.e., 2 product lots per laboratory).

IV. SUMMARY OF SUBMITTED STUDIES

1. MRID 479589-01 "AOAC Germicidal Spray Test Supplemental," Test Organism: Community-Associated Methicillin-Resistant *Staphylococcus aureus*, Genotype 400 (CA-MRSA 400); Clinical Isolate 08005, for Carb, F2008.0034, by Felicia L. Sellers. Study conducted at MICROBIOTEST. Study completion date – August 5, 2009. Laboratory Project Identification Number 320-479.

This study was conducted against Community-Associated Methicillin-Resistant *Staphylococcus aureus* Genotype 400 (Clinical Isolate 08005; received from the University of Louisville Hospital, Louisville, KY). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, according to Microbiotest protocol 320.5.09.16.08. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch, with a treated area of 1 inch x 1 inch) per product lot were inoculated with 0.01-0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 20-40 minutes at $37 \pm 2^\circ\text{C}$ (which differs from the AOAC method specification of 30-40 minutes at 37°C). For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C . Following

the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48 ± 2 hours at $37 \pm 2^\circ\text{C}$ (which differs from the AOAC method specification of 48 hours at 37°C). Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, confirmation of the challenge microorganism, and antibiotic resistance.

Note: Antibiotic resistance of Community-Associated Methicillin-Resistant *Staphylococcus aureus* Genotype 400 was verified on a representative culture. An individual Mueller Hinton Agar plate was streaked with the prepared culture in a crosshatch pattern. After crosshatching, an antibiotic disk was added to the center of the plate. The plate was incubated and, following incubation, the zone of inhibition was measured and documented. The measured zone of inhibition (i.e., 0 mm) confirmed antibiotic resistance of Community-Associated Methicillin-Resistant *Staphylococcus aureus* Genotype 400 to oxacillin. See pages 9 and 15 of the laboratory report.

Note: Protocol deviations/amendments reported in the study were reviewed.

2. MRID 479579-02 "AOAC Germicidal Spray Test Supplemental," Test Organism: Multidrug-Resistant (MDR) *Klebsiella pneumoniae* (ATCC 51503) for Carb, F2008.0034, by Felicia L. Sellers. Study conducted at MICROBIOTEST. Study completion date – August 4, 2009. Laboratory Project Identification Number 320-482.

This study was conducted against Multidrug-Resistant *Klebsiella pneumoniae* (ATCC 51503). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, according to Microbiotest protocol 320.8.09.16.08. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.01-0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 20-40 minutes at $37 \pm 2^\circ\text{C}$. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C . Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48 ± 2 hours at $37 \pm 2^\circ\text{C}$ (which differs from the AOAC method specification of 48 hours at 37°C). Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, confirmation of the challenge microorganism, and antibiotic resistance.

Note: Antibiotic resistance of Multidrug-Resistant *Klebsiella pneumoniae* (ATCC 51503) was verified on a representative culture. An individual Mueller Hinton Agar plate was streaked with the prepared culture in a crosshatch pattern. After crosshatching, an antibiotic disk was added to the center of the plate. The plate was incubated and, following incubation, the zone of inhibition was measured and documented. The measured zone of inhibition (i.e., 0 mm) confirmed antibiotic resistance of Multidrug-Resistant *Klebsiella pneumoniae* (ATCC 51503) to ceftazidime. See pages 9 and 15 of the laboratory report.

Note: Protocol deviations/amendments reported in the study were reviewed.

3. MRID 479579-03 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Streptococcus pyogenes* (ATCC 19615), for Carb, F2008.0034, by Felicia L. Sellers. Study conducted at MICROBIOTEST. Study completion date – August 4, 2009. Laboratory Project Identification Number 320-484.

This study was conducted against *Streptococcus pyogenes* (ATCC 19615). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, according to Microbiotest protocol 320.10.09.16.08. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.01-0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 20-40 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-8 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C under candle jar conditions (which differs from the AOAC method specification of 48 hours at 37°C). Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed.

4. MRID 479579-04 "Virucidal Effectiveness Test, Human Immunodeficiency Virus Type 1" for Carb, F2008.0034, by S. Steve Zhou. Study conducted at MICROBIOTEST. Study completion date – August 14, 2009. Laboratory Project Identification Number 320-495.

This study was conducted against Human immunodeficiency virus type 1 (strain not specified; obtained from ZeptoMetrix Corporation), using C8166 cells (obtained from the University of Pennsylvania) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Virucidal Effectiveness Test Human Immunodeficiency virus Type 1," dated October 10, 2008

(copy provided). The product was received ready-to-use. The stock virus culture contained at least a 5% organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 35 minutes at ambient temperature. For each lot of product, separate dried virus films were sprayed with the product at a distance of 6 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 30 seconds at 20°C. Five replicates per product lot were tested. Following exposure, the plates were neutralized with an equal volume of fetal bovine serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially in RPMI 1640 with 5% fetal bovine serum. C8166 cells in multi-well culture dishes were inoculated eight-fold with selected dilutions. The cultures were incubated for 9-12 days at $36\pm 2^{\circ}\text{C}$ in $5\pm 1\%$ CO_2 . The plates were re-fed, as necessary. Following incubation, the cultures were assayed for the presence of infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% tissue culture infectious dose per mL ($\text{TCID}_{50}/\text{mL}$) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

5. MRID 479579-05 "Amended Final Report, Virucidal Effectiveness Test, Respiratory Syncytial Virus, ATCC VR-26" for Carb, F2008.0034, by S. Steve Zhou. Study conducted at MICROBIOTEST. Study completion date – January 8, 2009. Amended report date – May 29, 2009. Laboratory Project Identification Number 320-497.

This study was conducted against Respiratory syncytial virus (strain not specified; ATCC VR-26), using HeLa cells (obtained from Diagnostic Hybrids) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Virucidal Effectiveness Test Respiratory Syncytial Virus," dated October 10, 2008 (copy provided). The product was received ready-to-use. The stock virus culture contained at least a 5% organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 30 minutes at ambient temperature. For each lot of product, separate dried virus films were sprayed with the product at a distance of 6 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 30 seconds at 21°C. Five replicates per product lot were tested. Following exposure, the plates were neutralized with an equal volume of fetal bovine serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially in DMEM with 5% fetal bovine serum. HeLa cells in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 3-5 days at $36\pm 2^{\circ}\text{C}$ in $5\pm 1\%$ CO_2 . The plates were re-fed, as necessary. Following incubation, the cultures were assayed for the presence of infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% tissue culture infectious dose per mL ($\text{TCID}_{50}/\text{mL}$) was determined using the method of Spearman Karber.

Note: The initial report was amended to "exclude the data obtained from large volume inoculation" and clarify that "all titers were calculated using the Spearman-Kärber method."

Note: Protocol deviations/amendments reported in the study were reviewed.

6. MRID 479579-06 "Virucidal Effectiveness Test, SARS-associated Coronavirus" for Carb, F2008.0034, by S. Steve Zhou. Study conducted at MICROBIOTEST. Study completion date – August 7, 2009. Laboratory Project Identification Number 320-498.

This study was conducted against SARS-associated coronavirus (CDC strain 200300592; obtained from ZeptoMetrix Corporation), using Vero E6 cells (ATCC CRL-1586) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Virucidal Effectiveness Test SARS-associated Coronavirus," dated October 10, 2008 (copy provided). The product was received ready-to-use. The stock virus culture contained a 5% organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 20 minutes at ambient temperature. For each lot of product, separate dried virus films were sprayed with the product at a distance of 7 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 10 minutes at 20°C. Five replicates per product lot were tested. Following exposure, the plates were neutralized with an equal volume of fetal bovine serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially in RPMI 1640 with 5% fetal bovine serum. Vero E6 cells in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 4-9 days at 36±2°C in 5±1% CO₂. The plates were re-fed, as necessary. Following incubation, the cultures were assayed for the presence of infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% tissue culture infectious dose per mL (TCID₅₀/mL) was determined using the method of Spearman Karber.

Note: The laboratory reported a failed study set up on December 11, 2008. In that study, no virus was detected in the plate recovery control. The laboratory did not accept the assay. These data were not used to evaluate efficacy of the product. Testing was repeated on December 24, 2008. In that study, the organic load was found to be only 2% serum. The laboratory did not accept the assay. These data were not used to evaluate efficacy of the product. Testing was repeated on January 14, 2009. See page 8 of the laboratory report.

Note: Protocol deviations/amendments reported in the study were reviewed.

7. MRID 479579-07 "Confirmatory Virucidal Effectiveness Test, Duck Hepatitis B Virus (Surrogate for Human Hepatitis B virus)" for Carb, F2008.0034, by Zheng Chen. Study conducted at MICROBIOTEST. Study completion date – August 4, 2009. Laboratory Project Identification Number 320-500.

This confirmatory study, under the direction of Study Director Zheng Chen, was conducted against Duck hepatitis B virus (strain not specified; obtained from HepadnaVirus Testing), using primary duck hepatocytes (ducklings obtained from Metzger Farms) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Confirmatory Virucidal Effectiveness Test Duck Hepatitis B virus (Surrogate for Human Hepatitis B virus)," dated October 10, 2008 (copy provided). The product was received ready-to-use. The viral stock contained 100% duck serum as the organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 30 minutes at ambient temperature. Five replicates per product lot were tested. For each product lot, separate dried virus films were sprayed with the product at a distance of 7 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 30 seconds at 20°C. Following exposure, the plates were neutralized with an equal volume of fetal bovine serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially in L-15 Complete. Primary duck hepatocytes in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 20-30 hours at 36±2°C in 5±1% CO₂ for viral adsorption. Post-adsorption, the cultures were re-fed and returned to incubation for 9-13 days at 36±2°C in 5±1% CO₂. The cultures were re-fed, as necessary. Following incubation, the cultures were assayed for the presence of infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% fluorescent focus forming unit dose per mL (FFFUD₅₀/mL) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

8. MRID 479579-08 "Virucidal Effectiveness Test, Coxsackievirus B3" for Carb, F2008.0034, by S. Steve Zhou. Study conducted at MICROBIOTEST. Study completion date – August 14, 2009. Laboratory Project Identification Number 320-507.

This study was conducted against Coxsackievirus B3 (ATCC VR-30), using LLC-MK2 cells (ATCC CCL-7.1) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Virucidal Effectiveness Test Coxsackievirus B3," dated November 1, 2008 (copy provided). The product was received ready-to-use. The stock virus culture contained a 5% organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 25 minutes at ambient temperature. For each lot of product, separate dried virus films were sprayed with the product at a distance of 6 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 10 minutes at 20°C. Five replicates per product lot were tested.

Following exposure, the plates were neutralized with an equal volume of fetal bovine serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephadryl columns, and diluted serially in RPMI 1640 with 5% fetal bovine serum. LLC-MK2 cells in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 2-5 days at $36\pm 2^{\circ}\text{C}$ in $5\pm 1\%$ CO_2 . The plates were re-fed, as necessary. Following incubation, the cultures were assayed for the presence of infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% tissue culture infectious dose per mL ($\text{TCID}_{50}/\text{mL}$) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

9. MRID 479579-09 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Burkholderia cepacia* (ATCC 25416), for Carb, F2008.0034, by Kathryn D. Dormstetter. Study conducted at MICROBIOTEST. Study completion date – August 4, 2009. Laboratory Project Identification Number 320-518.

This study was conducted against *Burkholderia cepacia* (ATCC 25416). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995. The product was received ready-to-use. A culture of the challenge microorganism was prepared in accordance with the published AOAC method, as recorded in Microbiotest protocol 320.3.01.17.09. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 30 minutes at $37\pm 2^{\circ}$. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 21°C . Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80, 1% Tamol, and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48 ± 2 hours at $36\pm 2^{\circ}\text{C}$. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: The laboratory reported a failed study set up on March 11, 2009. In that study, carrier count control results did not meet the criteria for a valid test. The laboratory did not accept the assay. These data were not used to evaluate efficacy of the product. Testing was repeated. See page 8 of the laboratory report.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

10. MRID 479579-10 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Corynebacterium diphtheriae* (ATCC 11913), for Carb, F2008.0034, by Kathryn D. Dormstetter. Study conducted at MICROBIOTEST. Study completion date – August 5, 2009. Laboratory Project Identification Number 320-520.

This study was conducted against *Corynebacterium diphtheriae* (ATCC 11913). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995 as recorded in Microbiotest protocol 320.5.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 35 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations appear were reviewed.

11. MRID 479579-11 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Escherichia coli* (ATCC 11229), for Carb, F2008.0034, by Kathryn D. Dormstetter. Study conducted at MICROBIOTEST. Study completion date – August 4, 2009. Laboratory Project Identification Number 320-521.

This study was conducted against *Escherichia coli* (ATCC 11229). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as recorded in Microbiotest protocol 320.6.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 36 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 21°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers

were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

12. MRID 479579-12 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Enterobacter cloacae* (ATCC 35549), for Carb, F2008.0034, by Kathryn D. Dormstetter. Study conducted at MICROBIOTEST. Study completion date – August 5, 2009. Laboratory Project Identification Number 320-523.

This study was conducted against *Enterobacter cloacae* (ATCC 35549). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995 as recorded in Microbiotest protocol 320.8.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 36 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 21°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

13. MRID 479579-13 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Klebsiella oxytoca* (ATCC 43165), for Carb, F2008.0034, by Kathryn D. Dormstetter. Study conducted at MICROBIOTEST. Study completion date – August 5, 2009. Laboratory Project Identification Number 320-525.

This study was conducted against *Klebsiella oxytoca* (ATCC 43165). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods

of Analysis, 16th Edition, 1995, as reported in Microbiotest protocol 320.10.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 35 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

14. MRID 479579-14 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Listeria monocytogenes* (ATCC 19111), for Carb, F2008.0034, by Kathryn D. Dormstetter. Study conducted at MICROBIOTEST. Study completion date – August 5, 2009. Laboratory Project Identification Number 320-529.

This study was conducted against *Listeria monocytogenes* (ATCC 19111). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as reported in Microbiotest protocol 320.14.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 35 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Brain Heart Infusion Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

15. MRID 479579-15 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Proteus mirabilis* (ATCC 7002), for Carb, F2008.0034, by Kathryn D. Dormstetter. Study conducted at MICROBIOTEST. Study completion date – August 5, 2009. Laboratory Project Identification Number 320-530.

This study was conducted against *Proteus mirabilis* (ATCC 7002). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as recorded in Microbiotest protocol 320.15.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 34 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 21°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

16. MRID 479579-16 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Proteus vulgaris* (ATCC 27973), for Carb, F2008.0034, by Kathryn D. Dormstetter. Study conducted at MICROBIOTEST. Study completion date – August 5, 2009. Laboratory Project Identification Number 320-531.

This study was conducted against *Proteus vulgaris* (ATCC 27973). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as recorded in Microbiotest protocol 320.16a.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 34 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 21°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to

neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

17. MRID 479579-17 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Salmonella enterica*; serovar *Paratyphi B* (ATCC 8759), for Carb, F2008.0034, by Felicia L. Sellers. Study conducted at MICROBIOTEST. Study completion date – August 5, 2009. Laboratory Project Identification Number 320-534.

This study was conducted against *Salmonella enterica*; serovar *Paratyphi B* (ATCC 8759). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as described in Microbiotest protocol 320.19.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 35 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

18. MRID 479579-18 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Salmonella typhi* (ATCC 6539), for Carb, F2008.0034, by Felicia L. Sellers. Study conducted at MICROBIOTEST. Study completion date – August 5, 2009. Laboratory Project Identification Number 320-535.

This study was conducted against *Salmonella typhi* (ATCC 6539). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC

Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as described in Microbiotest protocol 320.20.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 36 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 21°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations appear were reviewed.

19. MRID 479579-19 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Serratia marcescens* (ATCC 14756), for Carb, F2008.0034, by Felicia L. Sellers. Study conducted at MICROBIOTEST. Study completion date – August 5, 2009. Laboratory Project Identification Number 320-536.

This study was conducted against *Serratia marcescens* (ATCC 14756). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as described in Microbiotest protocol 320.21.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 34 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 21°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

20. MRID 479579-20 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Shigella dysenteriae* (ATCC 13313), for Carb, F2008.0034, by Felicia L. Sellers. Study conducted at MICROBIOTEST. Study completion date – August 5, 2009. Laboratory Project Identification Number 320-537.

This study was conducted against *Shigella dysenteriae* (ATCC 13313). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as described in Microbiotest protocol 320.22.01.17.09. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 35 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

21. MRID 479579-21 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Stenotrophomonas maltophilia* (ATCC 13637), for Carb, F2008.0034, by Felicia L. Sellers. Study conducted at MICROBIOTEST. Study completion date – August 4, 2009. Laboratory Project Identification Number 320-539.

This study was conducted against *Stenotrophomonas maltophilia* (ATCC 13637). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as described in Microbiotest protocol 320.24.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 35 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at

a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 30±2°C (which differs from the AOAC method specification of 48 hours at 37°C). Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

22. MRID 479579-22 "Virucidal Effectiveness Test, Adenovirus Type 14, ATCC VR-15" for Carb, F2008.0034, by Zheng Chen. Study conducted at MICROBIOTEST. Study completion date – August 4, 2009. Laboratory Project Identification Number 320-549.

This study was conducted against Adenovirus type 14 (strain not specified; ATCC VR-15), using A549 cells (ATCC CCL-185) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Virucidal Effectiveness Test Adenovirus Type 14," dated January 19, 2009 (copy provided). The product was received ready-to-use. The stock virus culture contained a 5% organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 30 minutes at ambient temperature. For each lot of product, separate dried virus films were sprayed (3 seconds) with the product at a distance of 7 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 10 minutes at 20°C. Five replicates per product lot were tested. Following exposure, the plates were neutralized with an equal volume of fetal bovine serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially in Dulbecco's Modified Eagle's Medium with 5% fetal bovine serum. A549 cells in multi-well culture dishes were inoculated eight-fold with selected dilutions. The cultures were incubated for 9-12 days at 36±2°C in 5±1% CO₂. The plates were re-fed, as necessary. Following incubation, the cultures were assayed for the presence of infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% tissue culture infectious dose per mL (TCID₅₀/mL) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

23. MRID 479579-23 "Virucidal Effectiveness Test, Hepatitis A virus" for Carb, F2008.0034, by Salimatu Jibril. Study conducted at MICROBIOTEST. Study completion date – August 5, 2009. Laboratory Project Identification Number 320-553.

This study was conducted against Hepatitis A virus (strain not specified; obtained from the University of Ottawa), using FRhK-4 cells (obtained from the University of Ottawa) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Virucidal Effectiveness Test Hepatitis A virus," dated January 19, 2009 (copy provided). The product was received ready-to-use. The stock virus culture contained a 5% organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 13 minutes at ambient temperature. For each lot of product, separate dried virus films were sprayed (3 seconds) with the product at a distance of 6 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 10 minutes at 20-21°C. Five replicates per product lot were tested. Following exposure, the plates were neutralized with an equal volume of fetal bovine serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially in DMEM with 5% fetal bovine serum. FRhK-4 cells in multi-well culture dishes were inoculated eight-fold with selected dilutions. The cultures were incubated for 16-20 days at 36±2°C in 5±1% CO₂. The plates were re-fed, as necessary. Following incubation, the cultures were assayed for the presence of infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% tissue culture infectious dose per mL (TCID₅₀/mL) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

24. MRID 479579-24 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Candida albicans* (ATCC 10231), for Carb, F2008.0034, by M. Hamid Bashir. Study conducted at MICROBIOTEST. Study completion date – September 11, 2009. Laboratory Project Identification Number 320-485.

This study was conducted against *Candida albicans* (ATCC 10231). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as recorded in Microbiotest protocol 320.11.09.16.08. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.02 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 30 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 1 minute at 20°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to

neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48 ± 2 hours at $37 \pm 2^\circ\text{C}$. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, and confirmation of the challenge microorganism.

Note: Repeat testing was performed using one batch (i.e., Lot No. 2008-eg-08) on December 24, 2008.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

25. MRID 479579-25 "AOAC Tuberculocidal Activity of a Germicidal Spray," Test Organism: *Mycobacterium bovis* BCG, for Carb, F2008.0034, by M. Hamid Bashir. Study conducted at MICROBIOTEST. Study completion date – September 22, 2009. Laboratory Project Identification Number 320-486.

This study was conducted against *Mycobacterium bovis* BCG (obtained from Organon Teknika Corporation). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Confirmative in vitro Test for Determining Tuberculocidal Activity as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as recorded in Microbiotest protocol 320.12.09.16.08. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot per contact time were inoculated with 0.02 mL of a 21-25 day old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 30 minutes at $37 \pm 2^\circ\text{C}$. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 5 or 9.5 minutes at 21°C . Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to individual tubes of 20 mL of Modified Proskauer-Beck Medium with 7% Polysorbate 80 and 1% Lecithin (which differs from the AOAC method specification of using horse serum to neutralize). The tubes containing neutralizer were shaken thoroughly after addition of the carrier, as specified in the AOAC method. The carriers were transferred to individual tubes containing 20 mL of Modified Proskauer-Beck Medium. From each tube of neutralizer, 2.0 mL were cultured to tubes containing 20 mL of Middlebrook 7H9 Broth and 2.0 mL were cultured to tubes containing 20 mL of Kirchner's Medium. Subculture tubes were also shaken thoroughly. All tubes used for secondary transfers were incubated for 60 days at $37 \pm 2^\circ\text{C}$. The tubes were incubated for an additional 30 days because no growth was observed after 60 days. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, and confirmation of the challenge microorganism. Neutralizer effectiveness was conducted at the longest contact time.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, product neutralization, and subculture incubation. The deviations were reviewed.

26. MRID 479579-26 "Initial Virucidal Effectiveness Test, Feline Calicivirus (Surrogate for Human Norovirus)" for Carb, F2008.0034, by S. Steve Zhou. Study conducted at MICROBIOTEST. Study completion date – October 6, 2009. Laboratory Project Identification Number 320-492.

This study, under the direction of Study Director S. Steve Zhou, was conducted against Feline calicivirus (strain not specified; ATCC VR-782), using CrFK cells (ATCC CCL-94) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Initial Virucidal Effectiveness Test Feline calicivirus (Surrogate for Human Norovirus)," dated October 10, 2008 (copy provided). The product was received ready-to-use. The stock virus culture contained a 5% organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 30 minutes at ambient temperature. Five replicates per product lot were tested. For each lot of product, separate dried virus films were sprayed with the product at a distance of 7 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 10 minutes at 20°C. Following exposure, the plates were neutralized with an equal volume of newborn calf serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially with RPMI 1640 with 5% newborn calf serum. CrFK cells in multi-well culture dishes were inoculated eight-fold with selected dilutions. The cultures were incubated for 7-9 days at 36±2°C in 5±1% CO₂. The cultures were re-fed, as necessary. Following incubation, the cultures were assayed for the presence of infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% tissue culture infectious dose per mL (TCID₅₀/mL) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

27. MRID 479579-27 "Initial Virucidal Effectiveness Test, Duck Hepatitis B Virus (Surrogate for Human Hepatitis B virus)" for Carb, F2008.0034, by S. Steve Zhou. Study conducted at MICROBIOTEST. Study completion date – September 1, 2009. Laboratory Project Identification Number 320-493.

This study, under the direction of Study Director S. Steve Zhou, was conducted against Duck hepatitis B virus (strain not specified; obtained from HepadnaVirus Testing), using primary duck hepatocytes (ducklings obtained from Metzger Farms) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Initial Virucidal Effectiveness Test Duck Hepatitis B virus (Surrogate for Human Hepatitis B virus)," dated October 10, 2008 (copy provided). The product was received ready-to-use. The stock virus culture contained 100% duck serum as the organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 25 minutes at

ambient temperature. Five replicates per product lot were tested. For each lot of product, separate dried virus films were sprayed with the product at a distance of 6 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 30 seconds at 20°C. Following exposure, the plates were neutralized with an equal volume of fetal bovine serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephadryl columns, and diluted serially with L-15 Complete. Primary duck hepatocytes in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 20-30 hours at 36±2°C in 5±1% CO₂ for viral adsorption. Post-adsorption, the cultures were re-fed and returned to incubation for 9-13 days at 36±2°C in 5±1% CO₂. The cultures were re-fed, as necessary. Following incubation, the cultures were assayed for the presence of infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% fluorescent focus forming unit dose per mL (FFFUD₅₀/mL) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were.

28. MRID 479579-28 "Confirmatory Virucidal Effectiveness Test, Feline Calicivirus (Surrogate for Human Norovirus)" for Carb, F2008.0034, by Salimatu Jibril. Study conducted at MICROBIOTEST. Study completion date – October 7, 2009. Laboratory Project Identification Number 320-499.

This confirmatory study, under the direction of Study Director Salimatu Jibril, was conducted against Feline calicivirus (strain not specified; ATCC VR-782), using CrFK cells (ATCC CCL-94) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Confirmatory Virucidal Effectiveness Test Feline calicivirus (Surrogate for Human Norovirus)," dated October 10, 2008 (copy provided). The product was received ready-to-use. The viral stock contained a 5% organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 17 minutes at ambient temperature. Five replicates per product lot were tested. For each product lot, separate dried virus films were sprayed with the product at a distance of 7 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 10 minutes at 19-21°C. Following exposure, the plates were neutralized with an equal volume of newborn calf serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephadryl columns, and diluted serially in RPMI 1640 with 5% newborn calf serum. CrFK cells in multi-well culture dishes were inoculated eight-fold with selected dilutions. The cultures were incubated for 7-9 days at 36±2°C in 5±1% CO₂. The cultures were re-fed, as necessary. Following incubation, the cultures were assayed for the presence of infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% tissue culture infectious dose per mL (TCID₅₀/mL) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

29. MRID 479579-29 "Virucidal Effectiveness Test, Rotavirus, ATCC VR-899" for Carb, F2008.0034, by S. Steve Zhou. Study conducted at MICROBIOTEST. Study completion date – October 6, 2009. Laboratory Project Identification Number 320-505.

This study was conducted against Rotavirus (strain not specified; ATCC VR-899), using MA-104 cells (obtained from Charles River Laboratories) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Virucidal Effectiveness Test Rotavirus," dated November 1, 2008 (copy provided). The product was received ready-to-use. The stock virus culture contained a 5% organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 30 minutes at ambient temperature. For each lot of product, separate dried virus films were sprayed with the product at a distance of 7 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 10 minutes at 20°C. Five replicates per product lot were tested. Following exposure, the plates were neutralized with an equal volume of Minimum Essential Medium with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially in Minimum Essential Medium with 1.0 µg/mL Trypsin. MA-104 cells in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 5-7 days at 36±2°C in 5±1% CO₂. The plates were re-fed, as necessary. Following incubation, the cultures were assayed for the presence of infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% tissue culture infectious dose per mL (TCID₅₀/mL) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

30. MRID 479579-30 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Campylobacter jejuni* (ATCC 29428), for Carb, F2008.0034, by M. Hamid Bashir. Study conducted at MICROBIOTEST. Study completion date – September 22, 2009. Laboratory Project Identification Number 320-519.

This study was conducted against *Campylobacter jejuni* (ATCC 29428). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as reported in Microbiotest protocol 320.4.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 35 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual

carriers were transferred to tubes containing Brucella Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48 ± 2 hours at $37 \pm 2^\circ\text{C}$ under candle jar conditions. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

31. MRID 479579-31 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Enterobacter aerogenes* (ATCC 13048), for Carb, F2008.0034, by M. Hamid Bashir. Study conducted at MICROBIOTEST. Study completion date – October 6, 2009. Laboratory Project Identification Number 320-522.

This study was conducted against *Enterobacter aerogenes* (ATCC 13048). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as recorded in Microbiotest protocol 320.7.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 36 minutes at $37 \pm 2^\circ\text{C}$. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 21°C . Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48 ± 2 hours at $37 \pm 2^\circ\text{C}$. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

32. MRID 479579-32 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Enterococcus faecalis* (ATCC 29212), for Carb, F2008.0034, by M. Hamid Bashir. Study conducted at MICROBIOTEST. Study completion date – September 22, 2009. Laboratory Project Identification Number 320-524.

This study was conducted against *Enterococcus faecalis* (ATCC 29212). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the

AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995 as recorded in Microbiotest protocol 320.9.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.02 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 35 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

33. MRID 479579-33 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Klebsiella pneumoniae* (ATCC 4352), for Carb, F2008.0034, by M. Hamid Bashir. Study conducted at MICROBIOTEST. Study completion date – September 11, 2009. Laboratory Project Identification Number 320-526.

This study was conducted against *Klebsiella pneumoniae* (ATCC 4352). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as reported in Microbiotest protocol 320.11.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 34 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 21°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

34. MRID 479579-34 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Klebsiella pneumoniae* ESBL (ATCC 700603), for Carb, F2008.0034, by M. Hamid Bashir. Study conducted at MICROBIOTEST. Study completion date – October 6, 2009. Laboratory Project Identification Number 320-527.

This study was conducted against *Klebsiella pneumoniae* ESBL (ATCC 700603). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as reported in Microbiotest protocol 320.12.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.02 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 40 minutes at $37\pm 2^{\circ}\text{C}$. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 21°C . Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48 ± 2 hours at $37\pm 2^{\circ}\text{C}$. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, confirmation of the challenge microorganism, and antibiotic resistance.

Antibiotic resistance of *Klebsiella pneumoniae* ESBL (ATCC 700603) was verified on a representative culture. An individual Mueller Hinton Agar plate was streaked with the prepared culture in a crosshatch pattern. After crosshatching, an antibiotic disk of either ampicillin or ceftazidime was added to the center of the plate. The plate was incubated and, following incubation, the zones of inhibition were measured and documented. The measured zone of inhibition (i.e., 0 mm) confirmed antibiotic resistance of *Klebsiella pneumoniae* ESBL (ATCC 700603) to ampicillin. The measured zone of inhibition (i.e., 11 mm) confirmed antibiotic resistance of *Klebsiella pneumoniae* ESBL (ATCC 700603) to ceftazidime. See pages 9 and 22 of the laboratory report.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

35. MRID 479579-35 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Legionella pneumophila* (ATCC 33153), for Carb, F2008.0034, by M. Hamid Bashir. Study conducted at MICROBIOTEST. Study completion date – October 6, 2009. Laboratory Project Identification Number 320-528.

This study was conducted against *Legionella pneumophila* (ATCC 33153). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as reported in Microbiotest protocol 320.13.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 32 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 21°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Charcoal Yeast Extraction Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C under candle jar conditions. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

36. MRID 479579-36 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Pseudomonas putida* (ATCC 12633), for Carb, F2008.0034, by M. Hamid Bashir. Study conducted at MICROBIOTEST. Study completion date – October 6, 2009. Laboratory Project Identification Number 320-532.

This study was conducted against *Pseudomonas putida* (ATCC 12633). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as reported in Microbiotest protocol 320.17.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 35 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1%

Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48 ± 2 hours at $30 \pm 2^\circ\text{C}$. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

37. MRID 479579-37 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Salmonella enteritidis* (ATCC 13076), for Carb, F2008.0034, by M. Hamid Bashir. Study conducted at MICROBIOTEST. Study completion date – October 6, 2009. Laboratory Project Identification Number 320-533.

This study was conducted against *Salmonella enteritidis* (ATCC 13076). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as reported in Microbiotest protocol 320.18.01.17.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 34 minutes at $37 \pm 2^\circ\text{C}$. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 21°C . Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48 ± 2 hours at $37 \pm 2^\circ\text{C}$. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

38. MRID 479579-38 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Streptococcus pneumoniae* (ATCC 33400), for Carb, F2008.0034, by M. Hamid Bashir. Study conducted at MICROBIOTEST. Study completion date – October 6, 2009. Laboratory Project Identification Number 320-540.

This study was conducted against *Streptococcus pneumoniae* (ATCC 33400). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as reported in Microbiotest protocol 320.25.01.17.09.

The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 32 minutes at $37\pm 2^{\circ}\text{C}$. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 21°C . Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Letheen Broth with 7% Polysorbate 80, 1% Lecithin, and 5% defibrinated sheep's blood to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48 ± 2 hours at $37\pm 2^{\circ}\text{C}$. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: The laboratory reported a failed study set up on March 19, 2009. In that study, carrier counts were low. The laboratory did not accept the assay. These data were not used to evaluate efficacy of the product. Testing was repeated. See page 8 of the laboratory report.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

39. MRID 479579-39 "Virucidal Effectiveness Test, Hantavirus (Prospect Hill Virus), University of Western Ontario" for Carb, F2008.0034, by Zheng Chen. Study conducted at MICROBIOTEST. Study completion date – September 16, 2009. Laboratory Project Identification Number 320-547.

This study was conducted against Hantavirus (Prospect Hill Virus; obtained from the University of Western Ontario), using Vero E6 cells (ATCC CRL-1586) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Virucidal Effectiveness Test Hantavirus (Prospect Hill virus)," dated January 19, 2009 (copy provided). The product was received ready-to-use. The stock virus culture contained at least a 5% organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 30 minutes at ambient temperature. For each lot of product, separate dried virus films were sprayed (3 seconds) with the product at a distance of 7 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 30 seconds at 20°C . Five replicates per product lot were tested. Following exposure, the plates were neutralized with an equal volume of fetal bovine serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially in RPMI 1640 with 5% fetal bovine serum. Vero E6 cells in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The inoculum was allowed to adsorb for 20-30 hours at $36\pm 2^{\circ}\text{C}$ with $5\pm 1\%$ CO_2 . The cultures were incubated for a total of 10-14 days at $36\pm 2^{\circ}\text{C}$ with $5\pm 1\%$ CO_2 . Following incubation, the cultures were assayed for the presence of

infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% fluorescent focus forming unit dose per mL (FFFUD₅₀/mL) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

40. MRID 479579-40 "Virucidal Effectiveness Test, Adenovirus Type 2, ATCC VR-846," for Carb, F2008.0034, by S. Steve Zhou. Study conducted at MICROBIOTEST. Study completion date – September 1, 2009. Laboratory Project Identification Number 320-548.

This study was conducted against Adenovirus type 2 (strain not specified; ATCC VR-846), using A549 cells (ATCC CCL-185) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Virucidal Effectiveness Test Adenovirus Type 2," dated January 19, 2009 (copy provided). The product was received ready-to-use. The stock virus culture contained at least a 5% organic soil load. Films of virus were prepared by spreading 0.4 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 30 minutes at ambient temperature. For each lot of product, separate dried virus films were sprayed (3 seconds) with the product at a distance of 9 inches from the carrier surface. The carriers were allowed to remain wet for 10 minutes at 21°C. Five replicates per product lot were tested. Following exposure, the plates were neutralized with an equal volume of fetal bovine serum with 0.5% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially in DMEM with 5% fetal bovine serum. A549 cells in multi-well culture dishes were inoculated eight-fold with selected dilutions. The cultures were incubated for 11-14 days at 36±2°C in 5±1% CO₂. The plates were re-fed, as necessary. Following incubation, the cultures were assayed for the presence of infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% tissue culture infectious dose per mL (TCID₅₀/mL) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

41. MRID 479579-41 "Virucidal Effectiveness Test, Echovirus Type 12, ATCC VR-42" for Carb, F2008.0034, by Tien V. Mai. Study conducted at MICROBIOTEST. Study completion date – September 17, 2009. Laboratory Project Identification Number 320-551.

This study was conducted against Echovirus type 12 (strain not specified; ATCC VR-42), using LLC-MK2 cells (ATCC CCL-7.1) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Virucidal Effectiveness Test Echovirus Type 12," dated January 19, 2009 (copy provided). The product was received ready-to-use. The stock virus culture contained at least a 5% organic soil load. Films of virus were prepared by spreading 0.4 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 30

minutes at ambient temperature. For each lot of product, separate dried virus films were sprayed (3 seconds) with the product at a distance of 6 inches from the carrier surface. The carriers were allowed to remain wet for 10 minutes at 20°C. Five replicates per product lot were tested. Following exposure, the plates were neutralized with an equal volume of fetal bovine serum with 0.5% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially in RPMI 1640 with 5% fetal bovine serum. LLC-MK2 cells in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 3-5 days at 36±2°C in 5±1% CO₂. The plates were re-fed, as necessary. Following incubation, the cultures were assayed for the presence of infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% tissue culture infectious dose per mL (TCID₅₀/mL) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

42. MRID 479579-42 "Virucidal Effectiveness Test Herpes Simplex virus Type 1, ATCC VR-260" for Carb, F2008.0034, by Tien V. Mai. Study conducted at MICROBIOTEST. Study completion date – September 2, 2009. Laboratory Project Identification Number 320-554.

This study was conducted against Herpes simplex virus type 1 (strain not specified; ATCC VR-260), using Vero cells (ATCC CCL-81) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Virucidal Effectiveness Test Herpes Simplex virus Type 1," dated January 19, 2009 (copy provided). The product was received ready-to-use. The stock virus culture contained a 5% organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 26 minutes at ambient temperature. For each lot of product, separate dried virus films were sprayed (3 seconds) with the product at a distance of 8 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 30 seconds at 20°C. Five replicates per product lot were tested. Following exposure, the plates were neutralized with an equal volume of newborn calf serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially in RPMI 1640 with 5% newborn calf serum. Vero cells in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 6-8 days at 36±2°C in 5±1% CO₂. The plates were re-fed, as necessary. Following incubation, the cultures were assayed for the presence of infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% tissue culture infectious dose per mL (TCID₅₀/mL) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

43. MRID 479579-43 "Virucidal Effectiveness Test, Herpes Simplex virus Type 2, ATCC VR-734" for Carb, F2008.0034, by Tien V. Mai. Study conducted at MICROBIOTEST. Study completion date – September 16, 2009. Laboratory Project Identification Number 320-555.

This study was conducted against Herpes simplex virus type 2 (strain not specified; ATCC VR-734), using Vero cells (ATCC CCL-81) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Virucidal Effectiveness Test Herpes Simplex virus Type 2," dated January 19, 2009 (copy provided). The product was received ready-to-use. The stock virus culture contained a 5% organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 25 minutes at ambient temperature. For each lot of product, separate dried virus films were sprayed (3 seconds) with the product at a distance of 8 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 30 seconds at 20°C. Five replicates per product lot were tested. Following exposure, the plates were neutralized with an equal volume of newborn calf serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially in RPMI 1640 with 5% newborn calf serum. Vero cells in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 6-8 days at 36±2°C in 5±1% CO₂. The plates were re-fed, as necessary. Following incubation, the cultures were assayed for the presence of infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% tissue culture infectious dose per mL (TCID₅₀/mL) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

44. MRID 479579-44 "Virucidal Effectiveness Test Human Coronavirus (strain 229E), ATCC VR-740" for Carb, F2008.0034, by Zheng Chen. Study conducted at MICROBIOTEST. Study completion date – September 18, 2009. Laboratory Project Identification Number 320-556.

This study was conducted against Human coronavirus (Strain 229E, ATCC VR-740), using MRC-5 cells (ATCC CCL-171) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Virucidal Effectiveness Test Human Coronavirus (strain 229E)," dated January 19, 2009 (copy provided). The product was received ready-to-use. The stock virus culture contained a 5% organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 30 minutes at ambient temperature. For each lot of product, separate dried virus films were sprayed (3 seconds) with the product at a distance of 7 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 30 seconds at 20°C. Five replicates per product lot were tested. Following exposure, the plates were neutralized with an equal volume of fetal bovine serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant

mixtures were passed through individual Sephacryl columns, and diluted serially in Minimum Essential Medium with 10% fetal bovine serum. MRC-5 cells in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 5-7 days at $33\pm 2^{\circ}\text{C}$ in $5\pm 1\%$ CO_2 . The plates were re-fed, as necessary. Following incubation, the cultures were assayed for the presence of infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% tissue culture infectious dose per mL ($\text{TCID}_{50}/\text{mL}$) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

45. MRID 479579-45 "Virucidal Effectiveness Test Human Influenza B Virus, Charles River Laboratories" for Carb, F2008.0034, by Zheng Chen. Study conducted at MICROBIOTEST. Study completion date – September 16, 2009. Laboratory Project Identification Number 320-557.

This study was conducted against Human influenza B virus (Strain B/Lee/40; obtained from Charles River Laboratories), using MDCK cells (ATCC CCL-34) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Virucidal Effectiveness Test Human Influenza B virus," dated January 19, 2009 (copy provided). The product was received ready-to-use. The stock virus culture contained a 5% organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 30 minutes at ambient temperature. For each lot of product, separate dried virus films were sprayed (3 seconds) with the product at a distance of 7 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 30 seconds at 20°C . Five replicates per product lot were tested. Following exposure, the plates were neutralized with an equal volume of Minimum Essential Medium with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially in MEM with 1.0 $\mu\text{g}/\text{mL}$ Trypsin. MDCK cells in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 4-6 days at $36\pm 2^{\circ}\text{C}$ in $5\pm 1\%$ CO_2 . The plates were re-fed, as necessary. Following incubation, the cultures were assayed for the presence of infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% tissue culture infectious dose per mL ($\text{TCID}_{50}/\text{mL}$) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

46. MRID 479579-46 "Virucidal Effectiveness Test Cytomegalovirus, ATCC VR-538" for Carb, F2008.0034, by Tien V. Mai. Study conducted at MICROBIOTEST. Study completion date – October 14, 2009. Laboratory Project Identification Number 320-559.

This study was conducted against Cytomegalovirus (Strain AD-169; ATCC VR-538), using MRC-5 cells (ATCC CCL-171) as the host system. Two lots (Lot Nos. 2008-eg-07 and

2008-eg-08) of the product, Carb, F2008.0034, were tested according to a MicroBioTest protocol titled "Virucidal Effectiveness Test Cytomegalovirus," dated January 19, 2009 (copy provided). The product was received ready-to-use. The stock virus culture contained at least a 5% organic soil load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 30 minutes at ambient temperature. For each lot of product, separate dried virus films were sprayed (3 seconds) with the product at a distance of 6 inches from the carrier surface. The carriers were allowed to remain wet for 30 seconds at 21°C. Five replicates per product lot were tested. Following exposure, the plates were neutralized with an equal volume of fetal bovine serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephadryl columns, and diluted serially in DMEM with 5% fetal bovine serum. MRC-5 cells in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 14-21 days at $36\pm 2^{\circ}\text{C}$ in $5\pm 1\%$ CO_2 . The plates were re-fed, as necessary. Following incubation, the cultures were assayed for the presence of infectious virus. Controls included those for cell viability/sterility, virus stock titer, column titer count, plate recovery count, cytotoxicity, and neutralizer effectiveness/viral interference. The 50% tissue culture infectious dose per mL ($\text{TCID}_{50}/\text{mL}$) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

47. MRID 479579-47 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Candida glabrata* (ATCC 2001), for Carb, F2008.0034, by M. Hamid Bashir. Study conducted at MICROBIOTEST. Study completion date – October 6, 2009. Laboratory Project Identification Number 320-562.

This study was conducted against *Candida glabrata* (ATCC 2001). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as reported in Microbiotest protocol 320.1.04.10.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.03 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 40 minutes at $37\pm 2^{\circ}\text{C}$. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 1 minute at 21°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Yeast Mold Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48 ± 2 hours at $24\pm 2^{\circ}\text{C}$ (which differs from the AOAC method specification of 48 hours at 37°C). Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, and confirmation of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

48. MRID 479579-48 "AOAC Germicidal Spray Test Supplemental," Test Organism: Penicillin-resistant *Streptococcus pneumoniae* (ATCC 700671), for Carb, F2008.0034, by M. Hamid Bashir. Study conducted at MICROBIOTEST. Study completion date – September 11, 2009. Laboratory Project Identification Number 320-563.

This study was conducted against Penicillin-resistant *Streptococcus pneumoniae* (ATCC 700671). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as reported in Microbiotest protocol 320.2.04.10.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.02 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 40 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 21°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80, 1% Lecithin, and 5% defibrinated sheep's blood to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C and 5% CO₂ candle jar conditions. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, confirmation of the challenge microorganism, and antibiotic resistance.

Antibiotic resistance of Penicillin-resistant *Streptococcus pneumoniae* (ATCC 700671) was verified on a representative culture. An individual Tryptic Soy Agar plate with 5% defibrinated sheep's blood was streaked with the prepared culture in a crosshatch pattern. After crosshatching, an antibiotic disk was added to the center of the plate. The plate was incubated and, following incubation, the zone of inhibition was measured and documented. The measured zone of inhibition (i.e., 0 mm) confirmed antibiotic resistance of Penicillin-resistant *Streptococcus pneumoniae* (ATCC 700671) to penicillin. See pages 8, 9, and 22 of the laboratory report.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

49. MRID 479579-49 "Amended Final Report, AOAC Germicidal Spray Test Supplemental," Test Organism: Carbapenem resistant *Klebsiella pneumoniae* (ATCC BAA-1705), for Carb, F2008.0034, by M. Hamid Bashir. Study conducted at MICROBIOTEST. Study completion date – September 11, 2009. Amended report date – October 2, 2009. Laboratory Project Identification Number 320-564.

This study was conducted against Carbapenem resistant *Klebsiella pneumoniae* (ATCC BAA-1705). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, F2008.0034, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995, as reported in Microbiotest protocol 320.1.04.20.09. The product was received ready-to-use. Heat-inactivated horse serum was added to the inoculum to achieve a 5% organic soil load. Ten (10) glass slide carriers (1 inch x 3 inch) per product lot were inoculated with 0.02 mL of a 48-54 hour old suspension of test organism. Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 30 minutes at 37±2°C. For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 21°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes containing Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C. Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for carrier counts, sterility, viability, neutralizer effectiveness, bacteriostasis, confirmation of the challenge microorganism, and antibiotic resistance.

Antibiotic resistance of Carbapenem resistant *Klebsiella pneumoniae* (ATCC BAA-1705) was verified on a representative culture. An individual Mueller Hinton Agar plate was streaked with the prepared culture in a crosshatch pattern. After crosshatching, an antibiotic disk was added to the center of the plate. The plate was incubated and, following incubation, the zone of inhibition was measured and documented. The measured zone of inhibition (i.e., 10 mm) confirmed antibiotic resistance of Carbapenem resistant *Klebsiella pneumoniae* (ATCC BAA-1705) to imipenem. See pages 9, 16, and 17 of the laboratory report.

Note: The initial report was amended to provide a more complete description of the challenge microorganism.

Note: Protocol deviations/amendments reported in the study were reviewed. Testing deviated from AOAC method specifications with regard to culture preparation, carrier drying, and subculture incubation. The deviations were reviewed.

V. RESULTS

MRID Number	Organism	No. Exhibiting Growth/ Total No. Tested		Carrier Counts (CFU/ carrier)
		Lot No. 2008-eg-07	Lot No. 2008-eg-08	
3-Minute Exposure Time				
479579-01	Community-Associated Methicillin-Resistant <i>Staphylococcus aureus</i> Genotype 400	0/10	0/10	1.1 x 10 ⁵
479579-02	Multidrug-Resistant <i>Klebsiella pneumoniae</i>	0/10	0/10	1.9 x 10 ⁵
479579-03	<i>Streptococcus pyogenes</i>	0/10	0/10	2.4 x 10 ⁴
479579-09	<i>Burkholderia cepacia</i>	0/10	0/10	1.2 x 10 ⁶
479579-10	<i>Corynebacterium diphtheriae</i>	0/10	0/10	1.4 x 10 ⁶
479579-11	<i>Escherichia coli</i>	0/10	0/10	5.7 x 10 ⁴
479579-12	<i>Enterobacter cloacae</i>	0/10	0/10	2.3 x 10 ⁵
479579-13	<i>Klebsiella oxytoca</i>	0/10	0/10	8.1 x 10 ⁵
479579-14	<i>Listeria monocytogenes</i>	0/10	0/10	8.8 x 10 ⁶
479579-15	<i>Proteus mirabilis</i>	0/10	0/10	6.5 x 10 ⁵
479579-16	<i>Proteus vulgaris</i>	0/10	0/10	3.3 x 10 ⁵
479579-17	<i>Salmonella enterica</i> ; serovar Paratyphi B	0/10	0/10	4.8 x 10 ⁶
479579-18	<i>Salmonella typhi</i>	0/10	0/10	2.2 x 10 ⁵
479579-19	<i>Serratia marcescens</i>	0/10	0/10	2.1 x 10 ⁵
479579-20	<i>Shigella dysenteriae</i>	0/10	0/10	3.5 x 10 ⁶
479579-21	<i>Stenotrophomonas maltophilia</i>	0/10	0/10	8.3 x 10 ⁶
479579-30	<i>Campylobacter jejuni</i>	0/10	0/10	6.9 x 10 ⁶
479579-31	<i>Enterobacter aerogenes</i>	0/10	0/10	2.2 x 10 ⁵
479579-32	<i>Enterococcus faecalis</i>	0/10	0/10	6.1 x 10 ⁶
479579-33	<i>Klebsiella pneumoniae</i>	0/10	0/10	3.3 x 10 ⁵
479579-34	<i>Klebsiella pneumoniae</i> ESBL	0/10	0/10	1.3 x 10 ⁵
479579-35	<i>Legionella pneumophila</i>	0/10	0/10	1.8 x 10 ⁵
479579-36	<i>Pseudomonas putida</i>	0/10	0/10	4.7 x 10 ⁶
479579-37	<i>Salmonella enteritidis</i>	0/10	0/10	2.7 x 10 ⁵
479579-38	<i>Streptococcus pneumoniae</i>	0/10	0/10	7.7 x 10 ⁴
479579-48	Penicillin-resistant <i>Streptococcus pneumoniae</i>	0/10	0/10	7.3 x 10 ⁴
479579-49	Carbapenem resistant <i>Klebsiella pneumoniae</i>	0/10	0/10	1.3 x 10 ⁶
1-Minute Exposure Time				
479579-24	<i>Candida albicans</i>			
	Test Date: 12/13/2008	0/10	1/10	1.1 x 10 ⁴
	Test Date: 12/24/2008	---	0/10	1.3 x 10 ⁴
479579-47	<i>Candida glabrata</i>	0/10	0/10	1.6 x 10 ⁵

MRID Number	Organism	Results			Plate Recovery Control
			Lot No. 2008-eg-07	Lot No. 2008-eg-08	
30-Second Exposure Time					
479579-04	Human immunodeficiency virus type 1	10 ⁻² to 10 ⁻³ dilutions	Cytotoxicity	Cytotoxicity	10 ^{7.93} TCID ₅₀ /mL
		10 ⁻⁴ to 10 ⁻⁷ dilutions	Complete inactivation	Complete inactivation	
		TCID ₅₀ /mL	≤10 ^{4.80}	≤10 ^{4.80}	
		Log reduction	≥3.13 log ₁₀	≥3.13 log ₁₀	
479579-05	Respiratory syncytial virus	10 ⁻² dilution	Cytotoxicity	Cytotoxicity	10 ^{5.50} TCID ₅₀ /mL
		10 ⁻³ to 10 ⁻⁷ dilutions	Complete inactivation	Complete inactivation	
		TCID ₅₀ /mL	≤10 ^{2.50}	≤10 ^{2.50}	
		Log reduction	≥3.00 log ₁₀	≥3.00 log ₁₀	
479579-07	Duck hepatitis B virus	10 ⁻² dilution	Cytotoxicity	Cytotoxicity	10 ^{6.00} FFFUD ₅₀ /mL
		10 ⁻³ to 10 ⁻⁴ dilutions	Complete inactivation	Complete inactivation	
		FFFUD ₅₀ /mL	≤10 ^{2.50}	≤10 ^{2.50}	
		Log reduction	≥3.50 log ₁₀	≥3.50 log ₁₀	
479579-27	Duck hepatitis B virus	10 ⁻² dilution	Cytotoxicity	Cytotoxicity	10 ^{5.75} FFFUD ₅₀ /mL
		10 ⁻³ to 10 ⁻⁷ dilutions	Complete inactivation	Complete inactivation	
		FFFUD ₅₀ /mL	≤10 ^{2.50}	≤10 ^{2.50}	
		Log reduction	≥3.25 log ₁₀	≥3.25 log ₁₀	
479579-39	Hantavirus	10 ⁻² dilution	Cytotoxicity	Cytotoxicity	10 ^{6.75} FFFUD ₅₀ /mL
		10 ⁻³ to 10 ⁻⁷ dilutions	Complete inactivation	Complete inactivation	
		FFFUD ₅₀ /mL	≤10 ^{2.50}	≤10 ^{2.50}	
		Log reduction	≥4.25 log ₁₀	≥4.25 log ₁₀	
479579-42	Herpes simplex virus type 1	10 ⁻² dilution	Cytotoxicity	Cytotoxicity	10 ^{6.75} TCID ₅₀ /mL
		10 ⁻³ to 10 ⁻⁷ dilutions	Complete inactivation	Complete inactivation	
		TCID ₅₀ /mL	≤10 ^{2.50}	≤10 ^{2.50}	
		Log reduction	≥4.25 log ₁₀	≥4.25 log ₁₀	
479579-43	Herpes simplex virus type 2	10 ⁻² dilution	Cytotoxicity	Cytotoxicity	10 ^{6.50} TCID ₅₀ /mL
		10 ⁻³ to 10 ⁻⁷ dilutions	Complete inactivation	Complete inactivation	

MRID Number	Organism	Results			Plate Recovery Control
			Lot No. 2008-eg-07	Lot No. 2008-eg-08	
		TCID ₅₀ /mL	≤10 ^{2.50}	≤10 ^{2.50}	
		Log reduction	≥4.00 log ₁₀	≥4.00 log ₁₀	
479579-44	Human coronavirus	10 ⁻² dilution	Cytotoxicity	Cytotoxicity	10 ^{6.25} TCID ₅₀ /mL
		10 ⁻³ to 10 ⁻⁵ dilutions	Complete inactivation	Complete inactivation	
		TCID ₅₀ /mL	≤10 ^{2.50}	≤10 ^{2.50}	
		Log reduction	≥3.75 log ₁₀	≥3.75 log ₁₀	
479579-45	Human influenza B virus	10 ⁻² dilution	Cytotoxicity	Cytotoxicity	10 ^{6.60} TCID ₅₀ /mL
		10 ⁻³ to 10 ⁻⁷ dilutions	Complete inactivation	Complete inactivation	
		TCID ₅₀ /mL	≤10 ^{3.10}	≤10 ^{3.10}	
		Log reduction	≥3.50 log ₁₀	≥3.50 log ₁₀	
479579-46	Cytomegalovirus	10 ⁻² dilution	Cytotoxicity	Cytotoxicity	10 ^{5.75} TCID ₅₀ /mL
		10 ⁻³ to 10 ⁻⁷ dilutions	Complete inactivation	Complete inactivation	
		TCID ₅₀ /mL	≤10 ^{2.50}	≤10 ^{2.50}	
		Log reduction	≥3.25 log ₁₀	≥3.25 log ₁₀	
10-Minute Exposure Time					
479579-06	SARS-associated coronavirus	10 ⁻² dilution	Cytotoxicity	Cytotoxicity	10 ^{6.00} TCID ₅₀ /mL
		10 ⁻³ to 10 ⁻⁷ dilutions	Complete inactivation	Complete inactivation	
		TCID ₅₀ /mL	≤10 ^{2.50}	≤10 ^{2.50}	
		Log reduction	≥3.50 log ₁₀	≥3.50 log ₁₀	
479579-08	Coxsackievirus	10 ⁻² dilution	Cytotoxicity	Cytotoxicity	10 ^{6.00} TCID ₅₀ /mL
		10 ⁻³ to 10 ⁻⁷ dilutions	Complete inactivation	Complete inactivation	
		TCID ₅₀ /mL	≤10 ^{2.50}	≤10 ^{2.50}	
		Log reduction	≥3.50 log ₁₀	≥3.50 log ₁₀	
479579-22	Adenovirus type 14	10 ⁻² dilution	Cytotoxicity	Cytotoxicity	10 ^{7.55} TCID ₅₀ /mL
		10 ⁻³ to 10 ⁻⁷ dilutions	Complete inactivation	Complete inactivation	
		TCID ₅₀ /mL	≤10 ^{3.80}	≤10 ^{3.80}	
		Log reduction	≥3.75 log ₁₀	≥3.75 log ₁₀	
479579-23	Hepatitis A virus	10 ⁻² dilution	Cytotoxicity	Cytotoxicity	10 ^{7.30}

MRID Number	Organism	Results			Plate Recovery Control TCID ₅₀ /mL
			Lot No. 2008-eg-07	Lot No. 2008-eg-08	
		10 ⁻³ to 10 ⁻⁷ dilutions	Complete inactivation	Complete inactivation	
		TCID ₅₀ /mL	≤10 ^{3.80}	≤10 ^{3.80}	
		Log reduction	≥3.50 log ₁₀	≥3.50 log ₁₀	
479579-26	Feline calicivirus	10 ⁻² to 10 ⁻⁷ dilutions	Complete inactivation	Complete inactivation	10 ^{7.05} TCID ₅₀ /mL
		TCID ₅₀ /mL	≤10 ^{2.80}	≤10 ^{2.80}	
479579-28	Feline calicivirus	10 ⁻² dilution	Cytotoxicity	Cytotoxicity	10 ^{8.18} TCID ₅₀ /mL
		10 ⁻³ to 10 ⁻⁷ dilutions	Complete inactivation	Complete inactivation	
		TCID ₅₀ /mL	≤10 ^{3.80}	≤10 ^{3.80}	
		Log reduction	≥4.38 log ₁₀	≥4.38 log ₁₀	
479579-29	Rotavirus	10 ⁻² to 10 ⁻³ dilutions	Cytotoxicity	Cytotoxicity	10 ^{7.00} TCID ₅₀ /mL
		10 ⁻⁴ to 10 ⁻⁷ dilutions	Complete inactivation	Complete inactivation	
		TCID ₅₀ /mL	≤10 ^{3.50}	≤10 ^{3.50}	
		Log reduction	≥3.50 log ₁₀	≥3.50 log ₁₀	
479579-40	Adenovirus type 2	10 ⁻² dilution	Cytotoxicity	Cytotoxicity	10 ^{8.05} TCID ₅₀ /mL
		10 ⁻³ to 10 ⁻⁷ dilutions	Complete inactivation	Complete inactivation	
		TCID ₅₀ /mL	≤10 ^{3.80}	≤10 ^{3.80}	
		Log reduction	≥4.25 log ₁₀	≥4.25 log ₁₀	
479579-41	Echovirus type 12	10 ⁻² dilution	Cytotoxicity	Cytotoxicity	≥10 ^{8.50} TCID ₅₀ /mL
		10 ⁻³ to 10 ⁻⁷ dilutions	Complete inactivation	Complete inactivation	
		TCID ₅₀ /mL	≤10 ^{2.50}	≤10 ^{2.50}	
		Log reduction	≥6.00 log ₁₀	≥6.00 log ₁₀	

MRID Number	Organism	Media	No. Exhibiting Growth/ Total No. Tested	
			Lot No. 2008-eg-07, 90 Days	Lot No. 2008-eg-08, 90 Days
5- and 9.5-Minute Exposure Time				
479579-25	<i>Mycobacterium bovis</i> BCG	Modified Proskauer-Beck Medium	0/10	0/10
	Carrier Counts: 1.4 x 10 ⁴ CFU/carrier	Middlebrook 7H9 Broth	0/10	0/10
		Kirchner's Medium	0/10	0/10

VI CONCLUSIONS

1. The submitted efficacy data support the use of the product, Carb, F2008.0034, as a disinfectant with bactericidal activity against the following microorganisms on hard, non-porous surfaces in the presence of a 5% organic soil load for a 3-minute contact time:

Community-Associated Methicillin-Resistant

Staphylococcus aureus Genotype 400
Multidrug-Resistant *Klebsiella pneumoniae*
Streptococcus pyogenes
Burkholderia cepacia
Corynebacterium diphtheriae
Escherichia coli
Enterobacter cloacae
Klebsiella oxytoca
Listeria monocytogenes
Proteus mirabilis
Proteus vulgaris
Salmonella enterica; serovar *Paratyphi B*
Salmonella typhi
Serratia marcescens
Shigella dysenteriae
Stenotrophomonas maltophilia
Campylobacter jejuni
Enterobacter aerogenes
Enterococcus faecalis
Klebsiella pneumoniae
Klebsiella pneumoniae ESBL
Legionella pneumophila
Pseudomonas putida
Salmonella enteritidis

MRID 479579-01
MRID 479579-02
MRID 479579-03
MRID 479579-09
MRID 479579-10
MRID 479579-11
MRID 479579-12
MRID 479579-13
MRID 479579-14
MRID 479579-15
MRID 479579-16
MRID 479579-17
MRID 479579-18
MRID 479579-19
MRID 479579-20
MRID 479579-21
MRID 479579-30
MRID 479579-31
MRID 479579-32
MRID 479579-33
MRID 479579-34
MRID 479579-35
MRID 479579-36
MRID 479579-37

Streptococcus pneumoniae
Penicillin-resistant *Streptococcus pneumoniae*
Carbapenem resistant *Klebsiella pneumoniae*

MRID 479579-38
MRID 479579-48
MRID 479579-49

Complete killing was observed in the subcultures of the required number of carriers tested against the required number of product lots. Neutralizer effectiveness testing showed positive growth of the microorganisms. Viability controls were positive for growth. Sterility controls did not show growth. Bacteriostasis controls did not show growth.

Note: The "Comments on the Submitted Efficacy Studies" section of this report identifies AOAC method deviations with regard to culture preparation, carrier drying, and subculture incubation. The deviations are overall minor variations from listed temperatures and times, which would be considered standard in a laboratory. Since controls performed as expected, these differences are not considered to have negatively impacted the study validity in this case.

2. The submitted efficacy data support the use of the product, Carb, F2008.0034, as a disinfectant with fungicidal activity against the following microorganisms on hard, non-porous surfaces in the presence of a 5% organic soil load for a 1-minute contact time:

Candida albicans
Candida glabrata

MRID 479579-24
MRID 479579-47

Complete killing was observed in the subcultures of the required number of carriers tested against the required number of product lots. [Note that repeat testing was conducted on one product lot (i.e., Lot No. 2008-eg-08) against *Candida albicans*.] Neutralizer effectiveness testing showed positive growth of the microorganisms. Viability controls were positive for growth. Sterility controls did not show growth. When reported, bacteriostasis controls did not show growth.

Note: The "Comments on the Submitted Efficacy Studies" section of this report identifies AOAC method deviations with regard to culture preparation, carrier drying, and subculture incubation. The deviations are overall minor variations from listed temperatures and times, which would be considered standard in a laboratory. Since controls performed as expected, these differences are not considered to have negatively impacted the study validity in this case.

3. The submitted efficacy data support the use of the product, Carb, F2008.0034, as a disinfectant with virucidal activity against the following microorganisms on hard, non-porous surfaces in the presence of a 5% organic soil load (a 100% organic soil load for Duck hepatitis B virus) for a 30-second contact time:

Human immunodeficiency virus type 1
Respiratory syncytial virus
Duck hepatitis B virus
Hantavirus
Herpes simplex virus type 1
Herpes simplex virus type 2
Human coronavirus

MRID 479579-04
MRID 479579-05
MRID 479579-07 and -27
MRID 479579-39
MRID 479579-42
MRID 479579-43
MRID 479579-44

Human influenza B virus
Cytomegalovirus

MRID 479579-45
MRID 479579-46

Recoverable virus titers of at least 10^4 were achieved. In studies against all viruses tested at this exposure time, cytotoxicity was observed in the 10^{-2} dilutions. In studies against Human immunodeficiency virus type 1, cytotoxicity also was observed in the 10^{-3} dilutions. Complete inactivation (no growth) was indicated in all higher dilutions tested. At least a 3-log reduction in titer was demonstrated beyond the cytotoxic level. [In studies against Duck hepatitis B virus, the initial and confirmatory studies were performed at the same laboratory but under the direction of different study directors.]

4. The submitted efficacy data support the use of the product, Carb, F2008.0034, as a disinfectant with virucidal activity against the following microorganisms on hard, non-porous surfaces in the presence of a 5% organic soil load for a 10-minute contact time:

SARS-associated coronavirus	MRID 479579-06
Coxsackievirus	MRID 479579-08
Adenovirus type 14	MRID 479579-22
Hepatitis A virus	MRID 479579-23
Feline calicivirus	MRID 479579-26 and 28
Rotavirus	MRID 479579-29
Adenovirus type 2	MRID 479579-40
Echovirus type 12	MRID 479579-41

Recoverable virus titers of at least 10^4 were achieved. In studies against all viruses tested at this exposure time, cytotoxicity was observed in the 10^{-2} dilutions, with one exception: cytotoxicity was not observed in any dilutions in the initial study against Feline calicivirus. In studies against Rotavirus, cytotoxicity also was observed in the 10^{-3} dilutions. Complete inactivation (no growth) was indicated in all higher dilutions tested. At least a 3-log reduction in titer was demonstrated beyond the cytotoxic level. [In studies against Feline calicivirus, the initial and confirmatory studies were performed at the same laboratory but under the direction of different study directors.]

5. The submitted efficacy data (MRID 479579-25) support the use of the product, Carb, F2008.0034, as a disinfectant with tuberculocidal activity against *Mycobacterium bovis* BCG on hard, non-porous surfaces in the presence of a 5% organic soil load for a 5-minute contact time (also for a 9.5-minute contact time). Complete killing was observed in the subcultures of the required number of carriers against the required number of product lots. No growth was observed in the subcultures of the two extra media. Neutralizer effectiveness testing showed positive growth of the microorganism in Modified Proskauer-Beck Medium, Middlebrook 7H9 Broth, and Kirchner's Medium. Viability controls were positive for growth. Sterility controls did not show growth.

Note: The "Comments on the Submitted Efficacy Studies" section of this report identifies AOAC method deviations with regard to culture preparation, carrier drying, and subculture incubation. The deviations are overall minor variations from listed temperatures and times, which would be

considered standard in a laboratory. Since controls performed as expected, these differences are not considered to have negatively impacted the study validity in this case.

VII RECOMMENDATIONS

A. Regarding submitted data:

1. The proposed label claims that the product, Carb, is an effective disinfectant against the following microorganisms on pre-cleaned, hard, non-porous surfaces for a 3-minute contact time:

Burkholderia cepacia
Campylobacter jejuni
Carbapenem-Resistant *Klebsiella pneumoniae*
Community-Associated Methicillin-Resistant *Staphylococcus aureus* (CA-MRSA 400)
Corynebacterium diphtheriae
Enterobacter aerogenes
Enterobacter cloacae
Enterococcus faecalis
Escherichia coli
ESBL producing *Klebsiella pneumoniae*
Klebsiella oxytoca
Klebsiella pneumoniae
Legionella pneumophila
Listeria monocytogenes
Multidrug-Resistant *Klebsiella pneumoniae*
Penicillin-Resistant *Streptococcus pneumoniae*
Proteus mirabilis
Proteus vulgaris
Pseudomonas putida
Salmonella enterica [serovar - Paratyphi B]
Salmonella enteritidis
Salmonella typhi
Serratia marcescens
Shigella dysenteriae
Stenotrophomonas maltophilia
Streptococcus pneumoniae
Streptococcus pyogenes

These claims are acceptable as they are supported by the submitted data.

2. The proposed label claims that the product, Carb, is an effective disinfectant against *Mycobacterium bovis* BCG on pre-cleaned, hard, non-porous surfaces for a 5-minute contact time. This claim is acceptable as it is supported by the submitted data.

3. The proposed label claims that the product, Carb, is an effective disinfectant against the following microorganisms on pre-cleaned, hard, non-porous surfaces for a 1-minute contact time:

Candida albicans
Candida glabrata

These claims are acceptable as they are supported by the submitted data.

4. The proposed label claims that the product, Carb, is an effective disinfectant against the following microorganisms on pre-cleaned, hard, non-porous surfaces for a 10-minute contact time:

Adenovirus type 2
Adenovirus type 14
Coxsackievirus B3
Echovirus type 12
Feline calicivirus (surrogate for Norovirus)
Hepatitis A virus
Rotavirus
SARS-Associated Coronavirus (SARS)

These claims are acceptable as they are supported by the submitted data.

5. The proposed label claims that the product, Carb, is an effective disinfectant against the following microorganisms on pre-cleaned, hard, non-porous surfaces for a 30-second contact time:

Cytomegalovirus
Duck hepatitis B virus (surrogate for Human Hepatitis B virus)
Hantavirus
Herpes simplex virus type 1
Herpes simplex virus type 2
Human coronavirus
Human immunodeficiency virus type 1
Human influenza B virus
Respiratory syncytial virus

These claims are acceptable as they are supported by the submitted data.

6. The following revisions to EPA Form 8570-35 (Data Matrix) are recommended:

- On page 7, change the report identification number for the *Klebsiella oxytoca* study to 320-525.
- On page 10, change the report identification number for the *Streptococcus pneumoniae* study to 320-540

- Add information for the efficacy study against Rhinovirus 39 (ATCC VR-340), an organism identified on the last accepted label and the proposed label.
- Add information for the efficacy study against Poliovirus type 1 (ATCC VR-1562), an organism identified on the last accepted label and the proposed label.

B. Regarding proposed label:

1. On page 3 of the proposed label, delete "no rinse" from the phrase "[This product] is a no rinse disinfectant that disinfects and deodorizes in one labor saving step." Since the product requires a potable water rinse for food contact surfaces, and food contact surfaces are listed on the label, it is inaccurate to state that this is a "no rinse" product.
2. On page 4 of the proposed label, the applicant has added 2009 H1N1 language. New language is in accordance with Agency guidance, and is acceptable.
(<http://www.epa.gov/oppad001/h1n1-guide.html>)
3. The list of surface materials on page 10 of the proposed label lists "painted surfaces" and also identifies "painted surfaces" under the "Do Not Use On" section. This needs to be corrected.
4. The terms "virucidal" and "antiviral" appear throughout the label and are unqualified. The applicant needs to designate these statements with an asterisk that refers back to the organism listing for viruses on page 6.
5. The applicant has made changes to the label to conform with those specified in the Agency's 7/30/09 letter (signed by T. Lantz). These changes are acceptable.
6. The storage and disposal section of the label needs to be revised. It is missing a statement regarding storage in the original container and placement in a locked storage area for household products (PR Notice 83-3). In addition, three optional statements are listed. They do not include the statement, "Non-refillable container. Do not reuse or refill this container," which should be listed on residential use products (the product label lists, "Homes" as a use site).



January 15, 2010

Mr. ShaRon Carlisle, Product Manager 34 (acting)
U.S. Environmental Protection Agency
Document Processing Desk (AMEND)
Office of Pesticide Programs -7504P
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Re: Carb, EPA Reg. No. 67619-21
OPP EE0061A

Dear Ms. Carlisle:

We are submitting an application to amend the registration for Carb (EPA Reg. No. 67619-21) to submit 49 efficacy studies. In addition, we are changing the following on our label:

- Adding several new organisms
- Adding street address
- Adding H1N1 claims

The following volumes are enclosed – Volume I (administrative materials – one copy) and 3 copies each of Volumes II through L. These volumes are product chemistry (Volume II); the remaining volumes are efficacy studies.

Volume I contains the following:

- ✓ Form 8570-1, Application for Pesticide Registration (OPP EE0061A) (+ 2 copies)
- ✓ PRIA pre-payment fee (pay.gov Tracking ID is 2508DD7I)
- ✓ Labeling - 1 copy (label #R0803031)
- ✓ Label certification statement
- ✓ Form 8570-34, Certification with Respect to Citation of Data for end-use product (EP)
- ✓ Form 8570-35, Data Matrix (Agency Internal Use Copy) for EP
- ✓ Form 8570-35, Data Matrix (Public File Copy) for EP
- ✓ Form 8570-34, Certification with Respect to Citation of Data for Active Ingredient (AI) ethanol
- ✓ Form 8570-35, Data Matrix (Agency Internal Use Copy) for AI ethanol
- ✓ Form 8570-35, Data Matrix (Public File Copy) for AI ethanol
- ✓ Efficacy summary for submitted studies
- ✓ Transmittal document

c/o PS&RC
P.O. Box 493
Pleasanton, CA
94566-0803

(925) 425-6842
Fax: (925) 425-4496

In addition, we are sending a diskette containing an e-label with the electronic file name of:
✓ 067619-00021.20100115R0803031.pdf

We enclose an extra copy of both the cover letter and the transmittal document for all submitted studies.

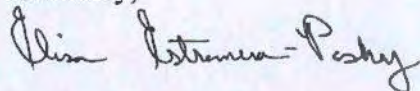
We request a copy of the efficacy Data Evaluation Record (DER) to be included with the Agency's response to this letter.

We believe that the following pesticide registration service fee information applies:

- Category: A570 - Label amendment requiring data submission
- Fee amount: \$3,108.00
- Decision time: 4 months

Thank you for reviewing the enclosed submission. If you have any questions, please contact me at 925-425-6199 or J. Evelyn Lawson at 925-425-6842.

Sincerely,



Elisa Estremera-Pasky
Regulatory Scientist
Clorox Professional Products Company
CTCPSERC@Clorox.com

TRANSMITTAL DOCUMENT

1. Name and address of submitter

Clorox Professional Products Company
c/o PS&RC
P.O. Box 493
Pleasanton, CA 94566-0803
Attention: J. Evelyn Lawson

2. Regulatory action in support of which this package is submitted

Carb, EPA Reg. No. 67619-21
Additional efficacy studies

These studies also support Brac, EPA Reg. No. 5813-97

3. Transmittal date

January 15, 2010

4. Submitted studies

Vol. II - AOAC Germicidal Spray Test Supplemental for
Community-Associated Methicillin-Resistant *Staphylococcus*
aureus; 810.2100 (c), (d), (e); 320-479

MRID assigned: 47957901

Vol. III - AOAC Germicidal Spray Test Supplemental for
Multidrug-Resistant (MDR) *Klebsiella pneumoniae* ;
810.2100 (c), (d), (e); 320-482

MRID assigned: 47957902

Vol. IV - AOAC Germicidal Spray Test Supplemental for
Streptococcus pyogenes ; 810.2100 (c), (d), (e); 320-484

MRID assigned: 47957903

Vol. V - Virucidal Effectiveness Test for Human
Immunodeficiency Virus Type; 810.2100 (g); 320-495

MRID assigned: 47957904

Vol. VI - Virucidal Effectiveness Test for Respiratory
Syncytial Virus (RSV); 810.2100 (g); 320-497

MRID assigned: 47957905

Vol. VII - Virucidal Effectiveness Test for SARS-associated
Coronavirus; 810.2100 (g); 320-498

MRID assigned: 47957906

Vol. VIII - Confirmatory Virucidal Effectiveness Test for Duck
Hepatitis B Virus (Surrogate for Human Hepatitis B Virus)
(DHBV); 810.2100 (g); 320-500

MRID assigned: 47957907

Vol. IX - Virucidal Effectiveness Test for Coxsackievirus B3;
810.2100 (g); 320-507

MRID assigned: 47957908

Vol. X - AOAC Germicidal Spray Test Supplemental for
Burkholderia cepacia ; 810.2100 (c), (d), (e); 320-518

MRID assigned: 47957909

Vol. XI - AOAC Germicidal Spray Test Supplemental for *Corynebacterium diphtheriae*; 810.2100 (c), (d), (e); 320-520

MRID assigned: 47957910

Vol. XII - AOAC Germicidal Spray Test Supplemental for *Escherichia coli*; 810.2100 (c), (d), (e); 320-521

MRID assigned: 47957911

Vol. XIII - AOAC Germicidal Spray Test Supplemental for *Enterobacter cloacae*; 810.2100 (c), (d), (e); 320-523

MRID assigned: 47957912

Vol. XIV - AOAC Germicidal Spray Test Supplemental for *Klebsiella oxytoca*; 810.2100 (c), (d), (e); 320-525

MRID assigned: 47957913

Vol. XV - AOAC Germicidal Spray Test Supplemental for *Listeria monocytogenes*; 810.2100 (c), (d), (e); 320-529

MRID assigned: 47957914

Vol. XVI - AOAC Germicidal Spray Test Supplemental for *Proteus mirabilis*; 810.2100 (c), (d), (e); 320-530

MRID assigned: 47957915

Vol. XVII - AOAC Germicidal Spray Test Supplemental for *Proteus vulgaris*; 810.2100 (c), (d), (e); 320-531

MRID assigned: 47957916

Vol. XVIII - AOAC Germicidal Spray Test Supplemental for *Salmonella enterica* - serovar *Paratyphi B*; 810.2100 (c), (d), (e); 320-534

MRID assigned: 47957917

Vol. XIX - AOAC Germicidal Spray Test Supplemental for *Salmonella typhi*; 810.2100 (c), (d), (e); 320-535

MRID assigned: 47957918

Vol. XX - AOAC Germicidal Spray Test Supplemental for *Serratia marcescens*; 810.2100 (c), (d), (e); 320-536

MRID assigned: 47957919

Vol. XXI - AOAC Germicidal Spray Test Supplemental for *Shigella dysenteriae*; 810.2100 (c), (d), (e); 320-537

MRID assigned: 47957920

Vol. XXII - AOAC Germicidal Spray Test Supplemental for *Stenotrophomonas maltophilia*; 810.2100 (c), (d), (e); 320-539

MRID assigned: 47957921

Vol. XXIII - Virucidal Effectiveness Test for Adenovirus Type 14; 810.2100 (g); 320-549

MRID assigned: 47957922

Vol. XXIV - Virucidal Effectiveness Test for Hepatitis A virus; 810.2100 (g); 320-553

MRID assigned: 47957923

Vol. XXV - AOAC Germicidal Spray Test Supplemental for *Candida albicans*; 810.2100 (c), (d), (e); 320-485

MRID assigned: 47957924

Vol. XXVI - AOAC Tuberculocidal Activity of a Germicidal Spray for *Mycobacterium bovis* (BCG); 810.2100 (c), (d), (e); 320-486

MRID assigned: 47957925

Vol. XXVII - Initial Virucidal Effectiveness Test for Feline Calicivirus (Norovirus and Norwalk Surrogate); 810.2100 (g); 320-492

MRID assigned: **47957926**

Vol. XXVIII - Initial Virucidal Effectiveness Test for Duck Hepatitis B Virus (Surrogate for Human Hepatitis B Virus) (DHBV); 810.2100 (g); 320-493

MRID assigned: **47957927**

Vol. XXIX - Confirmatory Virucidal Effectiveness Test for Feline Calicivirus (Norovirus and Norwalk Surrogate); 810.2100 (g); 320-499

MRID assigned: **47957928**

Vol. XXX - Virucidal Effectiveness Test for Rotavirus; 810.2100 (g); 320-505

MRID assigned: **47957929**

Vol. XXXI - AOAC Germicidal Spray Test Supplemental for *Campylobacter jejuni*; 810.2100 (c), (d), (e); 320-519

MRID assigned: **47957930**

Vol. XXXII - AOAC Germicidal Spray Test Supplemental for *Enterobacter aerogenes*; 810.2100 (c), (d), (e); 320-522

MRID assigned: **47957931**

Vol. XXXIII - AOAC Germicidal Spray Test Supplemental for *Enterococcus faecalis*; 810.2100 (g); 320-524

MRID assigned: **47957932**

Vol. XXXIV - AOAC Germicidal Spray Test Supplemental for *Klebsiella pneumoniae*; 810.2100 (c), (d), (e); 320-526

MRID assigned: **47957933**

Vol. XXXV - AOAC Germicidal Spray Test Supplemental for Extended Spectrum Beta Lactamase producing *Klebsiella pneumoniae* (ESBL producing *Klebsiella pneumoniae*); 810.2100 (c), (d), (e); 320-527

MRID assigned: **47957934**

Vol. XXXVI - AOAC Germicidal Spray Test Supplemental for *Legionella pneumophila*; 810.2100 (c), (d), (e); 320-528

MRID assigned: **47957935**

Vol. XXXVII - AOAC Germicidal Spray Test Supplemental for *Pseudomonas putida*; 810.2100 (c), (d), (e); 320-532

MRID assigned: **47957936**

Vol. XXXVIII - AOAC Germicidal Spray Test Supplemental for *Salmonella enteritidis*; 810.2100 (c), (d), (e); 320-533

MRID assigned: **47957937**

Vol. XXXIX - AOAC Germicidal Spray Test Supplemental for *Streptococcus pneumoniae*; 810.2100 (c), (d), (e); 320-540

MRID assigned: **47957938**

Vol. XL - Virucidal Effectiveness Test for Hantavirus; 810.2100 (g); 320-547

MRID assigned: **47957939**

Vol. XLI - Virucidal Effectiveness Test for Adenovirus Type 2; 810.2100 (g); 320-548

MRID assigned: **47957940**

Vol. XLII - Virucidal Effectiveness Test for Echovirus Type 12;
810.2100 (g); 320-551

MRID assigned: 47957941

Vol. XLIII - Virucidal Effectiveness Test for Herpes Simplex
virus Type 1; 810.2100 (g); 320-554

MRID assigned: 47957942

Vol. XLIV - Virucidal Effectiveness Test for Herpes Simplex
virus Type 2 ; 810.2100 (g); 320-555

MRID assigned: 47957943

Vol. XLV - Virucidal Effectiveness Test for Human
Coronavirus; 810.2100 (g); 320-556

MRID assigned: 47957944

Vol. XLVI - Virucidal Effectiveness Test for Human Influenza
B Virus; 810.2100 (g); 320-557

MRID assigned: 47957945

Vol. XLVII - Virucidal Effectiveness Test for Cytomegalovirus;
810.2100 (g); 320-559

MRID assigned: 47957946

Vol. XLVIII - AOAC Germicidal Spray Test Supplemental for
Candida glabrata ; 810.2100 (c), (d), (e); 320-562

MRID assigned: 47957947

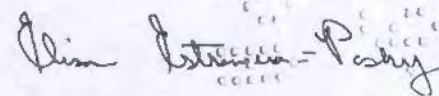
Vol. XLIX - AOAC Germicidal Spray Test Supplemental for
Penicillin-resistant *Streptococcus pneumoniae* ;
810.2100 (c), (d), (e); 320-563

MRID assigned: 47957948

Vol. L - AOAC Germicidal Spray Test Supplemental for
Carbapenem-resistant *Klebsiella pneumoniae* ;
810.2100 (c), (d), (e); 320-564

MRID assigned: 47957949

Company Official: Elisa Estremera-Pasky



Signature

Company Name: Clorox Professional Products Company
Company Contact: J. Evelyn Lawson
Phone: (925) 425-6842
Fax: (925) 425-4496
E-mail: CTCPSERC@Clorox.com



United States
Environmental Protection Agency
Washington, DC 20460

Registration
☒ Amendment
☐ Other

OPP Identifier Number

EE0061A

Application for Pesticide - Section I

1. Company/Product Number 67619-21	2. EPA Product Manager ShaRon Carlisle (acting)	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Carb	PM# 34	
5. Name and Address of Applicant (Include ZIP Code) Clorox Professional Products Company c/o PS&RC; P. O. Box 493 Pleasanton, CA 94566-0803 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input checked="" type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Submission of label amendment with 3 copies each of 49 efficacy studies. We also submit 1 label copy, label certification statement with diskette, EPA Certification with Respect to Citation of Data for EP and Ethanol, Data Matrices for EP and Ethanol (both EPA and public), efficacy summary for submitted studies, transmittal document, and pay.gov tracking fee copy. The tracking ID is 2508DD7I. Please refer to the cover letter for more details. In addition, we are sending a diskette containing an e-label with the electronic file name of 067619-00021.20100115R0803031.pdf

Section - III

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container	5. Location of Label Directions <input type="checkbox"/>
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name J. Evelyn Lawson	Title Senior Regulatory Information Scientist	Telephone No. (Include Area Code) (925) 425-6842
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Scientist	
4. Typed Name Elisa Estremera-Pasky	5. Date January 15, 2010	

Certification with Respect to Label Integrity

version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

PROPOSED LABEL		
EPA Registration #	Date Submitted to EPA	Electronic file name
67619-21	1/15/2010	067619-00021.20100115R0803031.pdf

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.

Elisa Estremuera-Pasky

Signature

January 15, 2010

Date

Elisa Estremuera-Pasky

Name (typed)

Regulatory Scientist

Title



CARB

ACTIVE INGREDIENTS:

Octyl decyl dimethyl ammonium chloride.....	0.1890%
Dioctyl dimethyl ammonium chloride.....	0.0945%
Didecyl dimethyl ammonium chloride.....	0.0945%
Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chlorides.....	0.2520%
Ethanol.....	58.0600%
OTHER INGREDIENTS†.....	41.3100%
TOTAL:.....	100.0000%

† This product contains sodium nitrite

KEEP OUT OF REACH OF CHILDREN

WARNING: See back panel for additional precautionary statements.

NET WT.

ACCEPTED
with COMMENTS
EPA Letter Dated:
MAY 24 2010
Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No.
67619-21

This product must not result in the direct or indirect contamination of food products.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eye wear (safety glasses). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. If skin contact with product occurs, wash thoroughly with soap and water, especially prior to food handling and preparation. Remove or cover aquariums and cages before use.

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor for further treatment advice. Have the product container with you when calling a poison control center or doctor or going for treatment. Questions? Call 1-888-797-7225.

PHYSICAL HAZARDS: Flammable: Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130° Fahrenheit may cause bursting.

STORAGE AND DISPOSAL: Pesticide Storage and Disposal: Do not contaminate water, food, or feed by storage and disposal. Store at temperatures below 130° Fahrenheit. **Container Disposal:** Do not puncture or incinerate. Do not reuse empty container. [Please] recycle empty container or discard in trash.

-or-

This container may be recycled in aerosol recycling centers. At present, there are only a few such centers in the U.S. Before offering for recycling, empty the can by using the product according to the label. (DO NOT PUNCTURE!) If recycling is not available, wrap the container and discard in the trash.

-or-

Empty the can by using the product according to the label. (DO NOT PUNCTURE) Some recycling centers accept these steel containers. Otherwise, wrap container and discard in trash.



Questions? Comments? Call toll-free 1-888-797-7225

Mfd. for Clorox Professional Products Company

1221 Broadway, Oakland, CA 94612

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EPA Reg. No. 67619-21

EPA Est. No. 58996-MO-1, 5813-CA-5, 71681-GA-1, IL-1, IL-2, 81368-OH-1

Made in [the] USA

Contains no phosphorus

Contains no CFCs or other

ozone depleting substances

Federal Regulations Prohibit

CFC Propellants in Aerosols

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

[Shake well.] For use on non-food contact surfaces only. For surfaces that may come in contact with food [such as countertops and high chairs], a potable water rinse is required. Do not use on glassware, utensils or dishes.

GENERAL CLAIMS

New(!) [& Improved] to be used as a claim descriptor only for the first 6 months of product on shelf

Claims:

- Do not use on [polished] wood, painted surfaces, acrylic plastics
- Bleach-free
- Clear formula
- Color fast
- Commercial Solutions®
- Contains no abrasives, harsh acids
- Contains no bleach
- Convenient
- Does not contain bleach
- Easy to use
- Eliminates -or- Removes [kitchen] [bathroom] odors
- For Professional Use
- For use in homes
- For use on both white and colored hard surfaces
- Formula for bathrooms -and/or- kitchens
- Great for everyday use [in the kitchen -or- bathroom]
- Great for Kitchen[s] -and/or- Bathroom[s] [too]
- [Great] For Everyday Use [in Kitchens and Bathrooms]
- Great in the Kitchen and Bathroom
- Institutional [size]
- Kitchen formula
- Made for kitchen surfaces and odors
- Multi-Surface
- No mixing
- No Unpleasant Odors
- Non-abrasive formula [will not scratch surfaces]
- Non-Chlorine Formula: Will not bleach clothing or colored surfaces
- Prevents [odors]
- Professional size
- Will not harm most hard, nonporous surfaces
- Will not harm Special -or- Premium Surfaces

DEODORIZATION

To deodorize: Spray on precleaned surfaces as needed.

Claims:

- Deodorizes -and/or- disinfects -or- helps deodorize
- Deodorizer [for Institutional Use]
- Deodorizes food odors [like garlic and onion] [left behind on kitchen surfaces] [after cooking]
- Eliminates mold odor[s]
- Eliminates odors caused by bacteria [and non-fresh foods]
- Eliminates -or- reduces [kitchen] odors [in the trash can -or- recycling bin odors -or- smells] [caused by ~~germs~~ or bacteria]
- Eliminates pet odors caused by ~~germs~~ or bacteria
- Kills odor causing bacteria in the kitchen -or- bathroom
- Kills odor causing bacteria ~~on surfaces~~
- Kills -or- eliminates bacteria that cause [bad] odors
- [This product] deodorizes areas that are hard to keep fresh smelling, in the [insert use sites from Tables 1-5]
- [This product] will deodorize hard, nonporous surfaces [including [insert surface(s) from Tables 1-5] [use site(s) from Tables 1-5] [where obnoxious odors may develop]]
- [This product] will deodorize surfaces in [insert site(s) from Tables 1-5]
- Removes -or- Eliminates odors

DYE & SCENT DESCRIPTORS AND CLAIMS:

- Contains no [dyes] [added colors]
- Dye-Free
- Free of Added -and/or- Dyes -and/or- Colors
- Free -or- clear of dyes
- Fresh scent formula
- Fresh Scented
- Has a fresh scent -or- fragrance -or- smell

MOLO

To control and prevent the growth of mold:

Spray precleaned surface until thoroughly wet. Surface must remain wet for 1 minute before wiping or air drying. Respray product as necessary for ongoing -or- continual control.

Claims:

- Controls [and] [prevents] mold growth
- Kills [and prevents the growth of] mold
- This product inhibits growth of mold

Organism:

1 minute contact time:

Trichophyton mentagrophytes [ATCC 9533]

DISINFECTION

To Disinfect: Spray 6 to 10 inches from precleaned surface for 3-4 seconds -or- until thoroughly wet. Surface must remain wet for 10 minutes. A potable water rinse is required for food contact surfaces.

Do not use on glasses, dishes, or utensils.

Claims:

- Antibacterial [spray] [action] [formula]
- An effective disinfectant for use in the kitchen, bathroom, bedroom, and other areas
- Antibacterial [Formula]
- Antibacterial Formula Disinfects
- Antibacterial -or- Germicidal [on hard, nonporous surfaces] [for Kitchens and Bathrooms]
- Antibacterial -or- Germicidal [Formula]
- Antimicrobial
- Bactericidal
- [Bathroom] [Restroom] [Kitchen] disinfectant
- Broad Spectrum Hospital Disinfectant
- Disinfects & [and] Deodorizes
- Disinfectant
- Disinfectant [for Institutional Use]
- Disinfecting formula
- Disinfecting spray
- Disinfect[s]
- Disinfects [Germs]
- Disinfects [washable] kitchen surfaces including killing [99.9% of] germs -and/or- bacteria -and/or- viruses -and/or- fungi
- Easily disinfect
- For [Hospital] [Commercial] [Industrial] & Institutional Use ~~[Rests]~~
- For Healthcare Use
- For Hospital Use
- Fungicidal -or- Antifungal
- Germicidal
- Hospital disinfectant
- Kills 99.9% of Bacteria
- Kills [99.9% of] Germs
- Kills [99.9% of] [kitchen] [bathroom] bacteria
- Kills [99.9% of] *see organism list*
- Kills Avian Influenza virus**
- Kills bacteria -or- germs -or- viruses on washable kitchen -and/or- bathroom surfaces and fixtures
- Kills bacteria -or- viruses
- Kills Flu Virus[+] [Influenza A virus]
- Kills [household] bacteria [without bleaching]
- Kills Influenza A virus [- the virus that causes the common flu]
- Kills [Salmonella enterica] [kitchen bacteria]
- Leaves hard, nonporous surfaces sanitary -or- disinfected in 10 minutes
- Multi-purpose disinfectant [spray]
- Provides broad spectrum kill of Gram negative and Gram positive microorganisms

- Pseudomonacidal
- Ready to use disinfectant
- Ready to use formula provides disinfecting and deodorizing
- Spray
- Staphylocidal
- [This product] deodorizes and disinfects hard, nonporous surfaces -or- *list any use sites: Tables 1-5*
- [This product] is a no rinse disinfectant that disinfects, and deodorizes in one labor saving step
- This product is a Broad Spectrum disinfectant, bactericidal according to the AOAC Germicidal Spray Product's test method
- This product is effective against the pathogenic fungi Trichophyton mentagrophytes (Athlete's Foot Fungus) when used as directed for disinfection with a contact time of 1 minute on hard, nonporous surfaces in bathrooms, including shower stalls, floors, and glazed bathroom tiles
- [This product] kills 99.9% of bacteria & viruses
- [This product] kills bacteria, viruses and mold
- [This product] kills germs throughout the kitchen -or- restaurant -or- establishment -or- building on hard, nonporous surfaces plus controls mold growth
- This product meets AOAC Germicidal Spray Product Test efficacy standards for hospital disinfectants
- [This product] will disinfect hard, nonporous surfaces [*insert surface(s) from Tables 1-5*] [*use site(s) from Tables 1-5*]
- Use [this product] to disinfect nonporous [*insert use sites/surfaces from Tables 1-5*]. [Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (120°), and allow to air dry.
- Virucidal -or- Antiviral
- [Virucidal] [Bactericidal] [Pseudomonacidal] [Fungicidal] [Deodorizer]

**Kills Avian Influenza virus on precleaned hard, nonporous surfaces

†Influenza A virus

Germicidal against the following [organisms]: -or- [This product] kills the following [organisms]: -or- Disinfects against the following [organisms] -and/or- Fungicidal -and/or- Virucidal:

Organisms:

See organism list

Pandemic 2009 H1N1 Influenza A virus

Standard 2009 H1N1 Claims:

- Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by influenza A virus. This product (***Product Name***) is a broad-spectrum hard surface disinfectant that has been shown to be effective against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.

- This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- Kills Pandemic 2009 H1N1 influenza A virus (formerly called swine flu).
- Kills Pandemic 2009 H1N1 influenza A virus.

Alternate 2009 H1N1 Claims:

- Kills [2009] H1N1 [Flu Virus]
- Kills Germs -and/or- Flu Viruses [including [2009] H1N1]

- Kills [99.9%] of Germs including [2009] H1N1 [Flu Virus]
- Effective against [2009] H1N1 [Flu Virus]

DISINFECTION continued

Organisms:

[This product] kills germs: -or- Kills -or- Disinfects against the following bacteria, viruses, fungi:

ORGANISMS:

Bacteria:

3 minute contact time:

Acinetobacter baumannii	[ATCC 15308]
Burkholderia cepacia	[ATCC 25416]
Campylobacter jejuni	[ATCC 29428]
Carbapenem-Resistant Klebsiella pneumoniae	[ATCC 3A1-1705]
Community-Associated Methicillin-Resistant Staphylococcus aureus (CA-MRSA 300)	[Genotype 300]
Community-Associated Methicillin-Resistant Staphylococcus aureus (CA-MRSA 400)	[Genotype 400] [Clinical Isolate 08005]
Corynebacterium diphtheriae	[ATCC 11313]
Enterobacter aerogenes	[ATCC 13048]
Enterobacter cloacae	[ATCC 35549]
Enterococcus faecalis	[ATCC 29212]
Escherichia coli (E.coli)	[ATCC 11229]
Escherichia coli O157:H7	[ATCC 35150]
ESBL (Extended Spectrum Beta Lactamase) producing Escherichia coli (ESBL producing E. coli)	[ATCC BAA-196]
Extended Spectrum Beta Lactamase producing Klebsiella pneumoniae [(ESBL producing Klebsiella pneumoniae)]	[ATCC 700603]
Klebsiella oxytoca	[ATCC 43165]
Klebsiella pneumoniae	[ATCC 4352]
Legionella pneumophila	[ATCC 33153]
Listeria monocytogenes	[ATCC 19111]
Methicillin-Resistant Staphylococcus aureus (MRSA 100)	[Genotype USA 100 NARSA NRS382]
Methicillin-Resistant Staphylococcus aureus (MRSA 200)	[Genotype USA 200 NARSA NRS383]
Methicillin-Resistant Staphylococcus aureus	[ATCC 33591]
Multidrug-Resistant Klebsiella pneumoniae	[ATCC 51503]
Penicillin-Resistant Streptococcus pneumoniae	[ATCC 700671]
Proteus mirabilis	[ATCC 7002]
Proteus vulgaris	[ATCC 27973]
Pseudomonas aeruginosa	[ATCC 15442]
Pseudomonas putida	[ATCC 12633]
Salmonella enterica	[ATCC 10708]
Salmonella enterica [serovar - paratyphi B]	[ATCC 8759]
Salmonella enteritidis	[ATCC 13076]
Salmonella typhi	[ATCC 6539]
Serratia marcescens	[ATCC 14756]
Shigella dysenteriae	[ATCC 13313]
Staphylococcus aureus	[ATCC 6538]
Stenotrophomonas maltophilia	[ATCC 13637]
Streptococcus pneumoniae	[ATCC 33400]
Streptococcus pyogenes	[ATCC 19615]
Vancomycin-Resistant Enterococcus faecalis (VRE)	[ATCC 51299]

5 minute contact time:

Mycobacterium bovis (BCG) -or- TB

DISINFECTION *continued*

Fungi:

3 minute contact time:

1 minute contact time:

Candida albicans	[ATCC 10231]
Candida glabrata	[ATCC 2001]
Trichophyton mentagrophytes	[ATCC 9533]

Viruses (non-enveloped):

30 second contact time:

Rhinovirus 39	[ATCC VR-340]
---------------	---------------

10 minute contact time:

Adenovirus type 2	[ATCC VR-846]
Adenovirus type 14	[ATCC VR-15]
Coxsackievirus B3	[ATCC VR-30]
Echovirus type 12	[ATCC VR-42]
Feline calicivirus (surrogate for Norovirus)	[ATCC VR-782]
Hepatitis A virus	
Poliovirus [type 1] [Polio]	[ATCC VR-1562]
Rotavirus	[ATCC VR-899]

Viruses (enveloped):

30 second contact time:

Avian Influenza virus	[H5N1 NIBRG-14]
Bovine viral diarrhea virus (surrogate for Human Hepatitis C virus)	
Cytomegalovirus	[ATCC VR-538 [strain AD-169]]
Duck Hepatitis B virus (DHBV) (surrogate for Human Hepatitis B virus)	
Hantavirus [(Prospect Hill virus)]	
Herpes Simplex Virus type 1	[ATCC VR-260]
Herpes Simplex Virus type 2	[ATCC VR-734]
Human coronavirus	[ATCC VR-740 [strain 229-E]]
Human Immunodeficiency virus (HIV) type 1	
Human Influenza A virus	[A/PR/8/34 (H1N1)]
Human Influenza B virus	[b/Lee40]
Respiratory Syncytial Virus (RSV)	[ATCC VR-26]

10 minute contact time:

SARS-Associated Coronavirus (SARS)	[CDC strain 200300592]
------------------------------------	------------------------

ENVIRONMENTAL TEXT:

[Important Facts about this product:]

- This can is made from an average of 25% recycled steel (10% post-consumer)
- Encourage your local authorities to establish a program to recycle this can
- [Please] Recycle empty container.

USE SITES

Ambulances -or- [Emergency Medical]
Transport Vehicles
Anesthesia Rooms -or- Areas
[Assisted Living -or- Full Care] Nursing
Homes
CAT Lab[oratories]
Central Service Areas
Central Supply Rooms -or- Areas
Critical Care Units -or- CCUs
Doctor's Offices
Donation Centers [blood] [plasma] [semen]
[milk] [apheresis]
Emergency Rooms -or- ERs
Eye Surgical Centers
Health Care Settings -or- Facilities
Home Health Care [Settings]
Hospices

TABLE 1 Medical:

Hospitals
[Hospital] Kitchens
Intensive Care Units -or- ICU[s] [areas]
Laboratories
Laundry Rooms
Long Term Care Facilities
[Medical] Clinics [Facilities]
Medical Facilities
Medical -or- Physician's -or- Doctor's
Offices
Newborn -or- Neonatal [Nurseries]
[Intensive Care] Units [NICU]
Nursing Homes
Nursing -or- Nurses' Stations
Operating Rooms
Ophthalmic Offices
Orthopedics

Outpatient [Surgical Centers (OPSC)]
[Clinics] [Facilities]
Patient Areas
Patient Restrooms
Patient Rooms
[Pediatric] Examination Rooms -or- Areas
Pediatric Intensive Care Units [PICU]
Pharmacies
Physicians' Offices
Physical Therapy Rooms -or- Areas
Psychiatric Facilities
Public Areas
Radiology -or- X-Ray Rooms -or- Areas
Recovery Rooms
Rehabilitation Centers
Surgery Rooms -or- Operating Rooms
-or- ORs
Waiting Rooms -or- Waiting Areas

HARD, NONPOROUS SURFACES ASSOCIATED WITH THE FOLLOWING

anesthesia machines
apheresis machines
autoclaves
bathroom doorknob
bedpans
bedpan cleaner
bedrails
[bedside] commodes
bedside tables
blood pressure cuffs
blood pressure (BP) monitors
cabinets
call boxes
CAT -or- Computerized Axial Tomography
equipment
carts
chairs
charging stations
computer peripherals
computer screens
computer tables
cords
counters
[crash] [emergency] carts
diagnostic equipment

docking stations
edges of privacy curtains
[exam -or- examination] tables
external surfaces of [medical] equipment
-or- [medical] equipment surfaces
[external] [surfaces of] ultrasound
transducers [-and/or- probes]
gurneys
hard, nonporous hospital -or- medical
surfaces
[hospital -or- patient] bed(s) [springs]
[railings] -or- linings -or- frames
IV [stands] [pumps] [poles]
keyboards
large surfaces
loupes
mammography equipment
medication carts
mobile workstations
mouse pads
MRI -or- Magnetic Resonance Imaging
equipment
operating room tables and lights
operating room light switches
overbed tables
paddles
patient chairs

plastic -or- vinyl mattress covers
patient monitoring equipment
patient support and delivery equipment
phlebotomy trays
physical therapy (pt) equipment surfaces
pulse oximeters
PVC tubing
reception counters -or- desks -or- areas
remote controls
respiratory therapy equipment
scales
sequential compression devices
side rails
slit lamps
small surfaces
spine backboards
stethoscopes
stools
stretchers
surfaces in and around toilets in patient
rooms
toilet handholds
traction devices
walls [around toilet] [in patient rooms]
wash basins
wheelchairs
x-ray equipment

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

PERSONAL PROTECTIVE SAFETY EQUIPMENT

face shields	protective headgear	spectacles
goggles	silicone rubber -or- PVC hearing protectors	vinyl covered earmuffs
hard hats		

Use on non-critical surfaces in:

TABLE 2 Dental:

USE SITES

Dental Offices
Examination Rooms
Dental Operatories
Dental -or- Dentists' Offices

SURFACES

amalgamators -and/or- dental curing lights
dental countertops
dental operatory surfaces
dentists' -or- dental chairs
endodontic equipment such as apex locators
hard, nonporous [environmental] dental surfaces
light lens covers
pulp testers and motors
reception counters -or- desks -or- areas

TABLE 3 Veterinary and Farm:

USE SITES

Animal Life Science Laboratories
Animal [Pet] Housing [Kennels] [Facilities]
Animal Holding Areas
[Animal -or- Pet] Grooming Facilities
Animal Transportation Vehicles
Breeding Establishments
Equine Farms

Farms
Kennels
Livestock -and/or- Swine -and/or- Poultry Facilities
Pet [Areas] [Quarters]
Pet Shops -or- Stores
Small Animal Facilities
Tack Shops

Veterinary Clinics -or- Facilities
Veterinary or Animal Hospitals
Veterinary [Offices] [Waiting Rooms]
Veterinary [Examination Rooms]
Veterinary [X-ray Rooms]
Veterinary [Operating Rooms]
Zoos

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

SURFACES

animal equipment
around troughs
automatic feeder exteriors
empty cages
external surfaces of [veterinary] equipment
feed rack exteriors
fountains
hard, nonporous [environmental] veterinary surfaces
pens
reception counters -or- desks -or- areas
stalls
veterinary care surfaces
watering appliance exteriors

TABLE 4 Food Service:

USE SITES

Banquet Halls
Bars
Cafeterias
Catering Facilities
Commercial -or- Institutional Kitchens

Delis [Delicatessens]
Fast Food Chains -or- Restaurants
Food Preparation and Processing Areas
Food [Service -or- Processing] Establishments
Food Serving Areas

Other Food Service Establishments
Restaurants
School Kitchens

SURFACES

any washable (food and non-food contact)
surface where disinfection is required
appliances
dish racks
drain boards
food cases
food trays
freezers
hoods
microwave[s] [exteriors]
oven[s] [exteriors]
plastic -or- metal outdoor furniture (excluding wood frames and upholstery)
refrigerator[s] [exteriors]
salad bar sneeze guards
stoves -or- stovetops

TABLE 5 Miscellaneous/General:

USE SITES

Airplanes [Airports]
Ambulances
Athletic [Recreational] Facilities
Automobiles
Barber Shops
Basements
Bathrooms
Bathroom -or- Locker Room
Facilities
Beauty Salons
Bedrooms
Blood Banks
Boats
Bowling Alleys
Buses
Butcher Shops
Cafeterias
Campers
Cars
Churches
Colleges
Convenience Stores
Correctional Facilities
[Damp] Storage Areas
Day Care Centers
Dens
Dorms
Dormitories
Elevators
Emergency Vehicles
Factories
Fast Food Restaurants
[Food Processing] Plants
Funeral Homes
Garages
[Garbage] [Waste] Storage Areas

Gas Stations
Grocery Stores
Gymnasiums -or- Gyms
Health Club[s] [Facilities]
Homes
Home Centers
Hotels
Industrial Facilities
Institutional Kitchens
[Institutional] Laundromats
Institutions
Kennels
Kitchen[s] [surfaces]
Laboratories
Laundromats
Laundry Rooms
Lavatories
Locker Rooms
Lodging Establishment
Lounges
Malis
[Manufacturing] Plants
Manufacturing Plants -or- Facilities
Markets
Mass Merchandisers, Discount Retailers
-and/or- General Merchandise Stores
Military Installations
Mobile Homes
Mortuaries
Motels
Motor Homes
Mudrooms
Nurseries
Office[s] [Buildings]
Pet Areas
Pharmacies

Play Areas -or- Rooms
Playgrounds
[Police -and/or- Fire] Vehicles
Produce Areas
Public Areas
Public Facilities
Public Restrooms
Public Telephone[s] [Booths]
Recreational Centers -or- Facilities
Rental Cars
Rest Stops
Restaurants
Restrooms -or- Pestroom Areas
Retail businesses
School Buses
Schools
Shelters
Ships
Shopping Centers
Shops
Shower Rooms
Sports Arenas
Storage Rooms -or- Areas
Subways
Supermarkets
Toolsheds
Transportation Terminals
Trains
Trolleys
Universities
Vacation Homes
Warehouse Clubs

A potable water rinse is required for food
contact surfaces.
Do not use on glassware, utensils, or
dishes.

TABLE 5 Miscellaneous/General: continued

SURFACES

appliance exterior[s] [surfaces]	elevator buttons	linoleum	stainless steel
appliance -or- cabinet knobs	exercise machines	lockers	stall doors
baked enamel	exhaust fans	[medicine] cabinets	staplers
bassinets	exterior -or- external toilet surfaces	metal	stovetops -or- stoves
[bathroom] fixtures	exterior -or- external urinal surfaces	metal blinds	synthetic marble
[bathroom] [kitchen] faucet[s] [handles]	exterior surfaces of urinals -and/or- toilets	metal work benches	tables [tabletops]
[bath]tubs	faucets	microwave exterior	[tiled] walls
bed frames	fax machine[s] [handles]	office machinery	tires
behind and under counters	[filling] [medicine] cabinets	office -or- bedroom -or- bedside furniture	[toilet flush] [telephone] [cabinet]
behind and under sinks	finished hardwood	other telecommunication equipment surfaces	[dishwasher] [door] handles
boats	finished -or- painted woodwork	outdoor grill exteriors	toilet -and/or- urinal exterior[s]
booster chairs	finished windowsills	outdoor -or- patio furniture	[surfaces] -or- exterior toilet surfaces toilet[s] [handle]
burner trays	fixtures	oven doors	[rims] [seats] [tops]
cabinets	floors [around toilets]	pet areas -or- surfaces	tools
car interiors	furniture	phones	towel dispensers
carts	freezer exteriors	plastic laundry hampers -or- baskets	toy boxes -or- storage bins
chairs	garage surfaces	plastic patio furniture -or- lawn chairs	trailers
[children's] furniture	garbage -or- trash cans	plastic shower curtains	[training] toilets
closets	glazed ceramic [restroom surfaces]	plastic surfaces associated with: floors, walls, fixtures, toilets, urinals, sinks, shower rooms and locker rooms	trash cans -or- compactors
[clothes] [diaper] hampers	glazed [ceramic] tile[s]	playground equipment	tray tables
coated ceilings	glazed porcelain [tiling -or- tile]	playpens	tubs
[computer] keyboards	[grocery [store] -or- supermarket] carts	portable toilet exteriors	urinals
cooler exteriors	[grocery [store] -or- supermarket] cart handles	[public -or- pay] telephones -or- phone booths	vanity tops -or- vanities
counters -or- countertops	[grocery [store] -or- supermarket] cart child seats	range hoods	vehicles
cupboards	gym[nastic] equipment	recycling bins	vending machine surfaces
cribs	hampers	refrigerator door handles	[vinyl] linoleum -or- wallpaper
crystal (non-food contact areas)	[hand]railings -or- rails	refrigerator exterior	walkers
desk[s] [tops]	[hard] plastic -or- vinyl	RVs	walls
[diaper -or- infant] changing [tables] -or- areas [stations]	headsets	sealed fiberglass	[washable] floors [including linoleum, no-wax, vinyl, and glazed ceramic tile]
diaper pails	high chairs (non-food contact areas)	shelves [and drawers]	washable kitchen surfaces
dictating equipment [surfaces]	[kids'] play [structures] [equipment] [furniture] [tables]	shower[s] [area] [curtains] [doors] [stalls] [walls]	[washable] walls
[dining] [fast food] [kitchen] [picnic] [play] [restaurant] [tray] tables	[kitchen] appliance exteriors	signs	washers/dryers -or- washing machine exterior[s]
dining room surfaces -and/or- tables -and/or- fast food restaurant tables	light fixtures -or- switches -or- panels	sink[s] [basins]	wastebaskets
door[s] [handle[s]] [frame[s]]		seats	whirlpool tubs
doorknobs		sports equipment	window [blinds] [shades]
drain boards			windshields
drawer pulls			wrestling mats
dressing carts			

SURFACE MATERIALS

[baked] enamel	glazed tile	stainless steel	Do Not Use On:
chrome	laminated surfaces	synthetic marble	acrylic plastics
[common] hard, nonporous [household -or- environmental] surfaces	Marlite	vinyl [tile]	natural marble
Formica	painted surfaces	similar hard, nonporous surfaces except for those excluded by the label	painted surfaces
glazed ceramic [tile]	plastic [laminated]		paper surfaces
glazed porcelain	plexiglass		[polished] wood
	porcelain enamel		rubber
	sealed fiberglass		unfinished wood



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Certification with Respect to Citation of Data

Applicant's/Registrant's Name, Address, and Telephone Number Clorox Professional Products Company (925) 425-6199 c/o PS&RC; P. O. Box 493 Pleasanton, CA 94566-0803	EPA Registration Number/File Symbol 67619-21 (Note: this is the for the End-use Product)
Active Ingredient(s) and/or representative test compound(s) Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)	Date January 15, 2010
General Use Pattern(s) (list all those claimed for this product using 40CFR Part 158) Institutional/Residential End-Use Product	Product Name Carb

NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

SECTION I: METHOD OF DATA SUPPORT (Check one method only)

☐ I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data matrix form should be used for this purpose).

☒ I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).

SECTION II: GENERAL OFFER TO PAY

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☐ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

SECTION III: CERTIFICATION

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-in response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (1) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature 	Date 1/15/2010	Typed or Printed Name and Title Elisa Estremera-Pasky, Regulatory Scientist
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Certification with Respect to Citation of Data

Applicant's/Registrant's Name, Address, and Telephone Number Clorox Professional Products Company (925) 425-6199 c/o PS&RC; P. O. Box 493 Pleasanton, CA 94566-0803	EPA Registration Number/File Symbol 67619-21 (Note: this is for the active ingredient Ethanol)
Active Ingredient(s) and/or representative test compound(s) Ethanol (1501)	Date January 15, 2010
General Use Pattern(s) (list all those claimed for this product using 40CFR Part 158) Institutional/Residential End-Use Product	Product Name Carb

NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

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<input type="checkbox"/> I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data matrix form should be used for this purpose).	<input checked="" type="checkbox"/> I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).
--	---

SECTION II: GENERAL OFFER TO PAY

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☐ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

SECTION III: CERTIFICATION

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (1) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature 	Date 1/15/2010	Typed or Printed Name and Title Elisa Estremera-Pasky, Regulatory Scientist
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DATA MATRIX

Date	January 15, 2010	EPA Reg. No./File Symbol	67619-21	Page 1 of 11	
Applicant's/Registrant's Name & Address		Product			
Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Carb			
Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550 (61-1)	Product Identity and Composition	47696801	Clorox Professional Products Company (3/9/2009)	OWN	
830.1600 (61-2a)	Description of Materials Used to Produce the Product	47696801 47925601	Clorox Professional Products Company (3/9/2009) Clorox Professional Products Company (11/30/2009)	OWN OWN	
830.1620 (61-2a)	Description of Production Process	Waived			
830.1650 (61-2a)	Description of Formulation Process	47696801	Clorox Professional Products Company (3/9/2009)	OWN	
830.1670 (61-3)	Discussion of Formation of Impurities	47696801	Clorox Professional Products Company (3/9/2009)	OWN	
830.1700 (62-1)	Preliminary Analysis	Waived			
830.1750 (62-2)	Certified Limits	47696801	Clorox Professional Products Company (3/9/2009)	OWN	See CSF
830.1800 (62-3) [for quat]	Enforcement Analytical Method	47735601	The Clorox Company (3/30/2009)	OWN	
830.1800 (62-3) [for EtOH]	Enforcement Analytical Method	47735602	The Clorox Company (3/30/2009)	OWN	
830.1900 [64-1]	Submittal of Samples	Waived			

Signature

Name and Title Elisa Estremera-Pasky
Regulatory ScientistDate
1/15/2010



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Date	January 15, 2010	EPA Reg. No./File Symbol	67619-21	Page 2 of 11	
Applicant's/Registrant's Name & Address		Product			
Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Carb			
Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6302 (63-2)	Color	Waived			
830.6303 (63-3)	Physical state	47696801	Clorox Professional Products Company (3/9/2009)	OWN	
830.6304 (63-4)	Odor	Waived			
830.6313 (63-13)	Stability to Normal and Elevated Temperature, Metals, and Metal Ions	Waived			
830.6314 (63-14)	Oxidation /Reduction: Chemical Incompatibility	Waived			
830.6315 (63-15)	Flammability	47696801	Clorox Professional Products Company (3/9/2009)	OWN	
830.6316 (63-16)	Explosibility	Waived			
830.6317 (63-17)	Storage Stability				
830.6319 (63-19)	Miscibility				
830.6320 (63-20)	Corrosion Characteristics				
830.6321 (63-21)	Dielectric Breakdown Voltage	Waived			
830.7000 (63-12)	pH	47696801	Clorox Professional Products Company (3/9/2009)	OWN	
Signature <i>Elisa Estremera-Pasky</i>			Name and Title Elisa Estremera-Pasky Regulatory Scientist		Date 1/15/2010



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Date	January 15, 2010	EPA Reg. No./File Symbol	67619-21	Page 3 of 11	
Applicant's/Registrant's Name & Address		Product			
Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Carb			
Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7050 [None]	UV/Visible Absorption	Waived			
830.7100(63-18)	Viscosity	47696801	Clorox Professional Products Company (3/9/2009)	OWN	
830.7200 (63-5)	Melting Point/ Melting Range	Waived			
830.7220 (63-6)	Boiling Point/Boiling Range	Waived			
830.7300 (63-7)	Density/ Relative Density/Bulk Density	47696801	Clorox Professional Products Company (3/9/2009)	OWN	
830.7370 (63-10)	Dissociation Constants in Water	Waived			
830.7520 [None]	Particle Size, Fiber Length, and Diameter Distribution	Waived			
830.7550 (63-11)	Partition Coefficient (n-Octanol/Water), Shake Flask Method	Waived			
830.7560 (63-11)	Partition Coefficient (n-Octanol/Water), Generator Column Method	Waived			
830.7570 (63-11)	Partition Coefficient (n-Octanol/Water), Estimation By Liquid Chromatography	Waived			
830.7840 (63-8)	Water Solubility: Column Elution Method; Shake Flask Method	Waived			
830.7860 (63-8)	Water Solubility (Generator Column Method)	Waived			

Signature	Name and Title	Date
	Elisa Estremera-Pasky Regulatory Scientist	1/15/2010



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Date	January 15, 2010	EPA Reg. No./File Symbol	619-21	Page 4 of 11
Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb	

Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7950 (63-9)	Vapor Pressure	Waived			
870.1100 (81-1)	Acute oral toxicity, rat	44636902	The Clorox Company (8/21/1998)	OWN	
870.1200 (81-2)	Acute dermal toxicity, rabbit	44636903	The Clorox Company (8/21/1998)	OWN	
870.1300 (81-3)	Acute inhalation toxicity, rat	44636904	The Clorox Company (8/21/1998)	OWN	
870.2400 (81-4)	Primary eye irritation, rabbit	44636905	The Clorox Company (8/21/1998)	OWN	
870.2400 (81-4)	Primary eye irritation, rabbit (supplemental data)	47768801	Clorox Professional Products Company (5/29/2009)	OWN	
870.2500 (81-5)	Primary dermal irritation, rabbit	44636906	The Clorox Company (8/21/1998)	OWN	
870.2600 (81-6)	Dermal Sensitization	44636907	The Clorox Company (8/21/1998)	OWN	
810.2100 (c),(d),(e)	<i>Trichophyton mentagrophytes</i> , ATCC 9533, 5% soil load; 1 min; 320-474	47696802	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (c),(d),(e)	<i>Acinetobacter baumannii</i> , ATCC 15308, 5% soil load; 3 min; 320-475	47696803	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (c),(d),(e)	Methicillin-Resistant <i>Staphylococcus aureus</i> , Genotype USA 100 (HA-MRSA 100), NRS382, Clinical Isolate 08009, 5% soil load; 3 min; 320-476	47696804	Clorox Professional Products Company (3/9/2009)	OWN	

Signature		Name and Title	Elisa Estremera-Pasky Regulatory Scientist	Date	1/15/2010
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Applicant's/Registrant's Name & Address		Product			
Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Carb			
Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.2100 (c),(d),(e)	Methicillin-Resistant <i>Staphylococcus aureus</i> , Genotype USA 200 (HA-MRSA 200), NRS383, Clinical Isolate 08010, 5% soil load; 3 min; 320-477	47696805	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (c),(d),(e)	Community-Associated Methicillin-Resistant <i>Staphylococcus aureus</i> , Genotype 300 (CA-MRSA 300), Clinical Isolate 08001, 5% soil load; 3 min; 320-478	47696806	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (c),(d),(e)	<i>Escherichia coli</i> O157:H7, ATCC 35150, 5% soil load; 3 min; 320-480	47696807	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (c),(d),(e)	ESBL (Extended Spectrum Beta Lactamase) producing <i>Escherichia coli</i> (ESBL producing <i>E. coli</i>) (ATCC BAA-196); 5% soil load; 3 min; 320-481	47696808	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (c),(d),(e)	Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA), ATCC 33591, 5% soil load; 3 min; 320-483	47696809	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (c),(d),(e)	Vancomycin-resistant <i>Enterococcus faecalis</i> , ATCC 51299, 5% soil load; 3 min; 320-487	47696810	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (c),(d),(e)	<i>Staphylococcus aureus</i> , (ATCC 6538), <i>Pseudomonas aeruginosa</i> , (ATCC 15442), <i>Salmonella enterica</i> , (ATCC 10708) 5% soil load; 3 min; 320-490	47696811	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (g)	Avian Influenza virus (H5N1)(NIBRG-14), 5% soil load; 30 sec; 320-491	47696812	Clorox Professional Products Company (3/9/2009)	OWN	

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DATA MATRIX

Date	January 15, 2010	EPA Reg. No./File Symbol	6919-21	Page 6 of 11	
Applicant's/Registrant's Name & Address		Product			
Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Carb			
Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.2100 (g)	Initial Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus), 5% soil load; 30 sec; 320-494	47696813	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (g)	Human Influenza A virus, A/PR/8/34 (H1N1); 5% soil load; 30 sec; 320-496	47696814	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (g)	Confirmatory Bovine Viral Diarrhea Virus, (Surrogate for Human Hepatitis C virus), 5% soil load; 30 sec; 320-501	47696816	Clorox Professional Products Company (3/9/2009)	OWN	
810.2100 (c), (d), (e)	Community Associated Methicillin-Resistant <i>Staphylococcus aureus</i> [Genotype 400 (CA-MRSA 400); Clinical Isolate 08005]; 3 min, 5% soil load; 320-479	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	Multidrug-Resistant <i>Klebsiella Pneumoniae</i> [ATCC 51503]; 3 min, 5% soil load; 320-482	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Streptococcus pyogenes</i> [ATCC 19615]; 3 min, 5% soil load; 320-484	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (g)	Human Immunodeficiency Virus (HIV) Type 1, [Zeptomatrix]; 30 sec, 5% soil load; 320-495	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (g)	Respiratory Syncytial Virus (RSV) [ATCC VR-26]; 30 sec, >= 5% soil load; 320-497	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (g)	SARS-associated Coronavirus [CDC strain 200300592]; 10 min, 5% soil load; 320-498	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	

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Applicant's/Registrant's Name & Address		Product			
Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Carb			
Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.2100 (g)	Duck Hepatitis B (surrogate for Human Hepatitis B virus); (DHBV) Confirmatory test; 30 sec, 100% duck serum; 320-500	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (g)	Coxsackievirus B3 [ATCC VR-30]; 10 min, 5% soil load; 320-507	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Burkholderia cepacia</i> [ATCC 25416]; 3 min, 5% soil load; 320-518	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Corynebacterium diphtheriae</i> [ATCC 11913]; 3 min, 5% soil load; 320-520	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Escherichia coli</i> (E.coli) [ATCC 11229]; 3 min, 5% soil load; 320-521	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Enterobacter cloacae</i> [ATCC 35549]; 3 min, 5% soil load; 320-523	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Klebsiella oxytoca</i> [ATCC 43165]; 3 min, 5% soil load; 320-425	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Listeria monocytogenes</i> [ATCC 19111]; 3 min, 5% soil load; 320-529	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Proteus mirabilis</i> [ATCC 7002]; 3 min, 5% soil load; 320-530	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.2100 (c), (d), (e)	<i>Proteus vulgaris</i> [ATCC 27973]; 3 min, 5% soil load; 320-531	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Salmonella enterica</i> serovar - <i>paratyphi B</i> [ATCC 8759]; 3 min, 5% soil load; 320-534	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Salmonella typhi</i> [ATCC 6539]; 3 min, 5% soil load; 320-535	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Serratia marcescens</i> [ATCC 14756]; 3 min, 5% soil load; 320-536	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Shigella dysenteriae</i> [ATCC 13313]; 3 min, 5% soil load; 320-537	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Stenotrophomonas maltophilia</i> [ATCC 13637]; 3 min, 5% soil load; 320-539	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (g)	Adenovirus Type 14 [ATCC VR-15]; 10 min, 5% soil load; 320-549	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (g)	Hepatitis A virus; 10 min, 5% soil load; 320-553	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Candida albicans</i> [ATCC 10231]; 1 min; 5% soil load; 320-485	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.2100 (c), (d), (e)	<i>Mycobacterium bovis</i> (BCG) -or- TB; 5 and 9.5 min; 5% organic load; 320-486	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (g)	Feline calicivirus (Norovirus and Norwalk surrogate) [ATCC VR-782]; initial; 10 min; 5% soil load; 320-492	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (g)	Duck hepatitis B virus ((surrogate for Human Hepatitis B virus); (DHBV); - initial test; 30 sec; 100% duck serum; 320-493	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (g)	Feline Calicivirus (Norovirus and Norwalk Surrogate) [ATCC VR-782] (confirmatory); 10 min; 5% soil load; 320-499	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (g)	Rotavirus [ATCC VR-899]; 10 min; 5% soil load; 320-505	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Campylobacter jejuni</i> [ATCC 29428]; 3 min; 5% soil load; 320-519	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Enterobacter aerogenes</i> [ATCC 13048]; 3 min; 5% soil load; 320-522	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (g)	<i>Enterococcus faecalis</i> [ATCC 29212]; 3 min; 5% soil load; 320-524	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Klebsiella pneumoniae</i> [ATCC 4352]; 3 min; 5% soil load; 320-526	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.2100 (c), (d), (e)	Extended Spectrum Beta Lactamase producing <i>Klebsiella Pneumoniae</i> (ESBL producing <i>Klebsiella pneumoniae</i>) [ATCC 700603]; 3 min; 5% soil load; 320-527	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Legionella pneumophila</i> (The bacteria that causes Legionnaires disease) [ATCC 33153]; 3 min; 5% soil load; 320-528	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Pseudomonas putida</i> [ATCC 12633]; 3 min; 5% soil load; 320-532	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Salmonella enteritidis</i> [ATCC 13076]; 3 min; 5% soil load; 320-533	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	<i>Streptococcus pneumoniae</i> [ATCC 33400]; 3 min; 5% soil load; 520-540	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (g)	Hantavirus (Prospect Hill Virus) 30 sec; >= 5% soil load; 320-547	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (g)	Adenovirus type 2 [ATCC VR-846]; 10 min; 5% soil load; 320-548	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (g)	Echovirus Type 12 [ATCC VR-42]; 10 min; >= 5% soil load; 320-551	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	

Signature

Elisa Estremera-Pasky

Name and Title Elisa Estremera-Pasky
Regulatory Scientist

Date
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.2100 (g)	Herpes Simplex Virus type 1 [ATCC VR-260]; 30 sec; 5% soil load; 320-554	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (g)	Herpes Simplex Virus type 2 [ATCC VR-734]; 30 sec; 5% soil load; 320-555	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (g)	Human coronavirus [Associated causative agent of common cold] [ATCC VR-740 Strain 229-E]; 30 sec; 5% soil load; 320-556	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (g)	Human Influenza B Virus (B/Lee 40; 30 sec; 5% soil load; 320-557	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (g)	Cytomegalovirus [ATCC VR-538] [Strain AD-169]; 30 sec; 5% soil load; 320-559	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	Candida glabrata [ATCC 2001]; 1 min; 5% soil load; 320-562	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	Penicillin-resistant Streptococcus pneumoniae [ATCC 700671]; 3 min; 5% soil load; 320-563	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	
810.2100 (c), (d), (e)	Carbapenem resistant Klebsiella pneumoniae [ATCC BAA-1705]; 3 min; 5% soil load; 320-564	To be assigned	Clorox Professional Products Company (1/15/2010)	OWN	

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Date
1/15/2010

Vol. #	Type of study	Organism	ATCC / Strain	Project	Contact time	Soil load
XXXV (35)	AOAC Germicidal Spray Test Supplemental	Extended Spectrum Beta Lactamase producing <i>Klebsiella Pneumoniae</i> (ESBL producing <i>Klebsiella pneumoniae</i>)	700603	320-527	3 min	5%
XXXVI (36)	AOAC Germicidal Spray Test Supplemental	<i>Legionella pneumophila</i>	33153	320-528	3 min	5%
XXXVII (37)	AOAC Germicidal Spray Test Supplemental	<i>Pseudomonas putida</i>	12633	320-532	3 min	5%
XXXVIII (38)	AOAC Germicidal Spray Test Supplemental	<i>Salmonella enteritidis</i>	13076	320-533	3 min	5%
XXXIX (39)	AOAC Germicidal Spray Test Supplemental	<i>Streptococcus pneumoniae</i>	33400	320-540	3 min	5%
XL (40)	Virucidal Effectiveness Test	Hantavirus	Prospect Hill Virus	320-547	30 sec	>= 5%
XLI (41)	Virucidal Effectiveness Test	Adenovirus Type 2	VR-846	320-548	10 min	>= 5%
XLII (42)	Virucidal Effectiveness Test	Echovirus Type 12	VR-42	320-551	10 min	>= 5%
XLIII (43)	Virucidal Effectiveness Test	Herpes Simplex virus Type 1	VR-260	320-554	30 sec	5%
XLIV (44)	Virucidal Effectiveness Test	Herpes Simplex virus Type 2	VR-734	320-555	30 sec	5%
XLV (45)	Virucidal Effectiveness Test	Human Coronavirus	VR-340; Strain 229E	320-556	30 sec	5%
XLVI (46)	Virucidal Effectiveness Test	Human Influenza B Virus	B/Lee 40	320-557	30sec	5%
XLVII (47)	Virucidal Effectiveness Test	Cytomegalovirus	VR-538; Strain AD-169	320-559	30 sec	>= 5%
XLVIII (48)	AOAC Germicidal Spray Test Supplemental	<i>Candida glabrata</i>	2001	320-562	1 min	5%
XLIX (49)	AOAC Germicidal Spray Test Supplemental	Penicillin-resistant <i>Streptococcus pneumoniae</i>	700671	320-563	3 min	5%
L (50)	AOAC Germicidal Spray Test Supplemental	Carbapenem-resistant <i>Klebsiella pneumoniae</i>	BAA-1705	320-564	3 min	5%

Vol. #	Type of study	Organism	ATCC / Strain	Project	Contact time	Soil load
XIX (19)	AOAC Germicidal Spray Test Supplemental	<i>Salmonella typhi</i>	6539	320-535	3 min	5%
XX (20)	AOAC Germicidal Spray Test Supplemental	<i>Serratia marcescens</i>	14756	320-536	3 min	5%
XXI (21)	AOAC Germicidal Spray Test Supplemental	<i>Shigella dysenteriae</i>	13313	320-537	3 min	5%
XXII (22)	AOAC Germicidal Spray Test Supplemental	<i>Stenotrophomonas maltophilia</i>	13637	320-539	3 min	5%
XXIII (23)	Virucidal Effectiveness Test	Adenovirus Type 14	VR-15	320-549	10 min	5%
XXIV (24)	Virucidal Effectiveness Test	Hepatitis A virus		320-553	10 min	5%
XXV (25)	AOAC Germicidal Spray Test Supplemental	<i>Candida albicans</i>	10231	320-485	1 min	5%
XXVI (26)	AOAC Tuberculocidal Activity of a Germicidal Spray	<i>Mycobacterium bovis</i> (BCG)		320-486	5 min & 9.5	5%
XXVII (27)	Initial Virucidal Effectiveness Test	Feline Calicivirus (Norovirus and Norwalk Surrogate)	VR-782	320-492	10 min	5%
XXVIII (28)	Initial Virucidal Effectiveness Test	Duck Hepatitis B Virus (Surrogate for Human Hepatitis B Virus) (DHBV)		320-493	30 sec	100% duck serum
XXIX (29)	Confirmatory Virucidal Effectiveness Test	Feline Calicivirus (Norovirus and Norwalk Surrogate)	VR-782	320-499	10 min	5%
XXX (30)	Virucidal Effectiveness Test	Rotavirus	VR-899	320-505	10 min	5%
XXXI (31)	AOAC Germicidal Spray Test Supplemental	<i>Campylobacter jejuni</i>	29428	320-519	3 min	5%
XXXII (32)	AOAC Germicidal Spray Test Supplemental	<i>Enterobacter aerogenes</i>	13048	320-522	3 min	5%
XXXIII (33)	AOAC Germicidal Spray Test Supplemental	<i>Enterococcus faecalis</i>	29212	320-524	3 min	5%
XXXIV (34)	AOAC Germicidal Spray Test Supplemental	<i>Klebsiella pneumoniae</i>	4352	320-526	3 min	5%

Vol. #	Type of study	Organism	ATCC / Strain	Project	Contact time	Soil load
II (2)	AOAC Germicidal Spray Test Supplemental	Community-Associated Methicillin-Resistant <i>Staphylococcus aureus</i>	Genotype 400 (CA-MRSA 400); Clinical Isolate 08005	320-479	3 min	5%
III (3)	AOAC Germicidal Spray Test Supplemental	Multidrug-Resistant (MDR) <i>Klebsiella pneumoniae</i>	51503	320-482	3 min	5%
IV (4)	AOAC Germicidal Spray Test Supplemental	<i>Streptococcus pyogenes</i>	19615	320-484	3 min	5%
V (5)	Virucidal Effectiveness Test	Human Immunodeficiency Virus Type 1		320-495	30 sec	5%
VI (6)	Virucidal Effectiveness Test	Respiratory Syncytial Virus (RSV)	VR-26	320-497	30 sec	>= 5%
VII (7)	Virucidal Effectiveness Test	SARS-associated Coronavirus	CDC strain 200300592	320-498	10 min	5%
VIII (8)	Confirmatory Virucidal Effectiveness Test	Duck Hepatitis B Virus (Surrogate for Human Hepatitis B Virus) (DHBV)		320-500	30 sec	100% duck serum
IX (9)	Virucidal Effectiveness Test	Coxsackievirus B3	VR-30	320-507	10 min	5%
X (10)	AOAC Germicidal Spray Test Supplemental	<i>Burkholderia cepacia</i>	25416	320-518	3 min	5%
XI (11)	AOAC Germicidal Spray Test Supplemental	<i>Corynebacterium diphtheriae</i>	11913	320-520	3 min	5%
XII (12)	AOAC Germicidal Spray Test Supplemental	<i>Escherichia coli</i>	11229	320-521	3 min	5%
XIII (13)	AOAC Germicidal Spray Test Supplemental	<i>Enterobacter cloacae</i>	35549	320-523	3 min	5%
XIV (14)	AOAC Germicidal Spray Test Supplemental	<i>Klebsiella oxytoca</i>	43165	320-525	3 min	5%
XV (15)	AOAC Germicidal Spray Test Supplemental	<i>Listeria monocytogenes</i>	19111	320-529	3 min	5%
XVI (16)	AOAC Germicidal Spray Test Supplemental	<i>Proteus mirabilis</i>	7002	320-530	3 min	5%
XVII (17)	AOAC Germicidal Spray Test Supplemental	<i>Proteus vulgaris</i>	27973	320-531	3 min	5%
XVIII (18)	AOAC Germicidal Spray Test Supplemental	<i>Salmonella enterica</i> ; serovar Paratyphi B	8759	320-534	3 min	5%



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M. Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate of any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137) U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date	January 15, 2010	EPA Reg. No./File Symbol	67619-21	Page	1 of 5
Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb (Note: this is the data matrix for the active ingredient ethanol)		

Ingredient Ethanol (1501)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550 (61-1)	Product Identity and Composition	42705601	American Ripener Co., Inc.	OLD	
830.1600 (61-2a)	Description of Materials Used to Produce the Product	42705601	American Ripener Co., Inc.	OLD	
830.1620 (61-2b)	Description of Production Process	42705601	American Ripener Co., Inc.	OLD	
830.1650 (61-2b)	Description of Formulation Process	N/A	Not required for Manufacturing Use Product		
830.1670 (61-3)	Discussion of Formation of Impurities	42705601	American Ripener Co., Inc.	OLD	
830.1700 (62-1)	Preliminary Analysis	N/A			
830.1750 (62-2)	Certification of Limits	42705602	American Ripener Co., Inc.	OLD	
830.1800 (62-3)	Enforcement Analytical Method	47696801	Clorox Professional Products Company (3/9/2009)	OWN	
830.1900 [64-1]	Submittal of Samples	N/A	Not a requirement at time of RED for Aliphatic Alcohols (April 1995)		
830.6302 (63-2)	Color	42705603	American Ripener Co., Inc.	OLD	
830.6303 (63-3)	Physical state	42705603	American Ripener Co., Inc.	OLD	
830.6304 (63-4)	Odor	42705603	American Ripener Co., Inc.	OLD	
830.6313 (63-13)	Stability to Normal and Elevated Temperature, Metals, and Metal Ions	42705603	American Ripener Co., Inc.	OLD	

Signature		Name and Title	Elisa Estremera-Pasky Regulatory Scientist	Date	1/15/2010
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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DATA MATRIX

Date	January 15, 2010	EPA Reg. No./File Symbol	67619-21	Page	2 of 5
Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb (Note: this is the data matrix for the active ingredient ethanol)		

Ingredient Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6314 (63-14)	Oxidation /Reduction: Chemical Incompatibility	42705603	American Ripener Co., Inc.	OLD	
830.6315 (63-15)	Flammability	42705603	American Ripener Co., Inc.	OLD	
830.6316 (63-16)	Explodability	42705603	Ameriean Ripener Co., Inc.	OLD	
830.6317 (63-17)	Storage Stability	Waived			
830.6319 (63-19)	Miscibility	42705603	American Ripener Co., Inc.	OLD	
830.6320 (63-20)	Corrosion Characteristics	42705603	American Ripener Co., Inc.	OLD	
830.6321 (63-21)	Dielectric Breakdown Voltage	Waived	Not required for Manufacturing Use Product		
830.7000 (63-12)	pH	42705603	American Ripener Co., Inc.	OLD	
830.7050 [None]	UV/Visible Absorption	Waived	Not required for Manufacturing Use Product		
830.7100(63-18)	Viscosity	42705603	American Ripener Co., Inc.	OLD	
830.7200 (63-5)	Melting Point/ Melting Range	42705603	American Ripener Co., Inc.	OLD	
830.7220 (63-6)	Boiling Point/Boiling Range	42705603	American Ripener Co., Inc.	OLD	
830.7300 (63-7)	Density/Relative Density/Bulk Density	42705603	American Ripener Co., Inc.	OLD	
830.7370 (63-10)	Dissociation Constants in Water	42705603	American Ripener Co., Inc.	OLD	

Signature		Name and Title	Elisa Estremera-Pasky Regulatory Scientist	Date	1/15/2010
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DATA MATRIX

Date	January 15, 2010	EPA Reg. No./File Symbol	67619-21	Page	3 of 5
Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb (Note: this is the data matrix for the active ingredient ethanol)		

Ingredient Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7520 [None]	Particle Size, Fiber Length, and Diameter Distribution	N/A	The product is neither a powdered-type nor a fibrous product		
830.7550 (63-11)	Partition Coefficient (n-Octanol/Water), Shake Flask Method	Waived			
830.7560 (63-11)	Partition Coefficient (n-Octanol/Water), Generator Column Method	Waived			
830.7570 (63-11)	Partition Coefficient (n-Octanol/Water), Estimation By Liquid Chromatography	Waived			
830.7840 (63-8)	Water Solubility: Column Elution Method; Shake Flask Method	42705603	American Ripener Co., Inc.	OLD	
830.7860 (63-8)	Water Solubility (Generator Column Method)	42705603	American Ripener Co., Inc.	OLD	
830.7950 (63-9)	Vapor Pressure	42705603	American Ripener Co., Inc.	OLD	
72-1a	Fish Toxicity Bluegill	40098001	Novartis Crop Protection	OLD	
72-1c	Fish Toxicity Rainbow Trout	40098001	Novartis Crop Protection	OLD	
72-2a	Invertebrate Toxicity	N/A	Guideline satisfied by studies in public literature	PL	
72-3a	Estuarine/Marine Toxicity Fish	N/A	Guideline satisfied by studies in public literature	PL	
870.1100 (81-1)	Acute oral toxicity, rat	N/A	Guideline satisfied by studies in public literature	PL	

Signature		Name and Title	Elisa Estremera-Pasky Regulatory Scientist	Date	1/15/2010
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DATA MATRIX

Date	January 15, 2010	EPA Reg. No./File Symbol	67519-21	Page	4 of 5
Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb (Note: this is the data matrix for the active ingredient ethanol)		

Ingredient Ethanol (1501)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1200 (81-2)	Acute dermal toxicity, rabbit	N/A	Guideline satisfied by studies in public literature	PL	
870.1300 (81-3)	Acute inhalation toxicity, rat	N/A	Guideline satisfied by studies in public literature	PL	
870.2400 (81-4)	Primary eye irritation, rabbit	N/A	Guideline satisfied by studies in public literature	PL	
870.2500 (81-5)	Primary dermal irritation, rabbit	N/A	Guideline satisfied by studies in public literature	PL	
870.2600 (81-6)	Dermal Sensitization	N/A	Not a requirement at time of RED for Aliphatic Alcohols (April 1995)		
(82-1a)	90 Day Feeding - Rodent	N/A	Guideline satisfied by studies in public literature	PL	
(82-2)	21 Day Dermal	N/A	Guideline satisfied by studies in public literature	PL	
(82-4)	90 Day Inhalation	N/A	Guideline satisfied by studies in public literature	PL	
(83-1a)	Chronic Feeding Toxicity - Rodent	00031038	Purdue Frederick Company	OLD	
(83-3a)	Development Toxicity - Rat	N/A	Guideline satisfied by studies in public literature	PL	

Signature		Name and Title	Elisa Estremera-Pasky Regulatory Scientist	Date	1/15/2010
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401 M. Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

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DATA MATRIX

Date	January 15, 2010	EPA Reg. No./File Symbol	67619-21	Page	5 of 5
Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb (Note: this is the data matrix for the active ingredient ethanol)		

Ingredient	Ethanol (1501)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
(84-2a)	Gene Mutation (Ames Test)	N/A	Guideline satisfied by studies in public literature	PL	
(84-2b)	Structural Chromosomal Abberation	N/A	Guideline satisfied by studies in public literature	PL	
(84-4)	Other Genotoxic Effects	N/A	Guideline satisfied by studies in public literature	PL	
(85-1)	General Metabolism	N/A	Guideline satisfied by studies in public literature	PL	

Signature		Name and Title	Elisa Estremera-Pasky Regulatory Scientist	Date	1/15/2010
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There is an **ELECTRONIC LABEL** for this action

You can use Acrobat to compare the e-label to the previous version (and find the changes). You can also use Acrobat to mark-up the e-label with your comments.

If e-label was submitted via

CD-ROM with paper application

then you will find e-label in

Electronic Label Library

If the e-label is not found in the ELL then it was probably not named correctly and could not be entered into the ELL. However, the file can be retrieved from the CD which is retained by the Front End.

or

If e-label was submitted via

XML E-Submission (no paper)

then you will find e-label in

Documentum

See overview of processing e-labels on other side of this sheet.

If you have any questions on e-labels, please contact one of your division e-label experts:

AD	Willie Abney	308-1689
	Renae Whitaker	308-7003
	Tracy Lantz	308-6415
BPPD		
RD	Tom Harris	308-9423

PRIA 2 – 21 Day Content Screen Review Worksheet

(EPA/OPP Use Only)

3/23/09

21 Day Screen Start Date: 1-19-10

Experts In-Processing Signature: M F HARRINGTON Date 1-21-10

Fee Paid: Yes ☒

Division management contacted on issues No ☐ Yes ☐ Date _____

EPA Reg. Number: <u>67619-21</u>		EPA Receipt Date: <u>1-19-10</u>				
Items for Review				Yes	No	N/A*
1	Application Form (EPA Form 8570-1)(link to form) signed & complete including package type			X		
2	Confidential Statement of Formula all boxes completed, form signed, and dated (EPA Form 8570-4) (Link to form) a) All inerts (link to http://www.epa.gov/opprd001/inerts/), including fragrances, approved for the proposed uses (see Footnote A)			yes	no	X
3	Certification with Respect to Citation of Data (EPA Form 8570-34) (Link to form) completed and signed (N/A if 100% repack) Certificate and data matrix consistent			X		
	If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)			yes	no	
	If applicable, is there a letter of Authorization for exclusive use only.					
4	Formulator's Exemption Statement (EPA Form 8570-27) (Link to form) completed and signed (N/A if source is unregistered or applicant owns the technical)					X
5	Data Matrix (EPA Form 8570-35) (Link to form) both internal and external copies (PR 98-5) (Link to PR 98-5) completed and signed (N/A if 100% repack) a) Selective Method (Fee category experts use) b) Cite-All (Fee category experts use) c) Applicant owns all data (Fee category experts use)			X		
6	5 Copies of Label (link to http://www.epa.gov/oppfead1/labeling/lrm/) (Electronic labels on CD are encouraged and guidance is available)(link to http://www.epa.gov/pesticides/regulating/registering/submissions/index.htm#labels)			X		

7	Is the data package consistent with PR Notice 86-5 (link to PRN 86-5)	X		
8	Notice of Filing (link to http://www.epa.gov/pesticides/regulating/tolerance_petitions.htm) included with petitions (link to http://www.epa.gov/pesticides/regulating/tolerances.htm)			X
9	If applicable for conventional applications, reduced risk rationale (link to http://www.epa.gov/opprd001/workplan/reducedrisk.html)			X
10	Required Data (link to http://www.epa.gov/pesticides/regulating/data_requirements.htm) and/or data waivers. See Footnote C.			
	a) List study (or studies) not included with application			

Comments:

- * CSF & Formulators Exemption Statement are absent and unnecessary.
- * Other forms are present and free of errors.
- * Data package associated with this submission is consistent with PR notice 86-5

MRID 479579

* N/A – Not Applicable

IK

Footnotes

A. During the 21 day initial content review, all CSFs will be reviewed to determine whether all inerts listed, including fragrances, are approved for the proposed uses. If an unapproved inert is identified, the applicant must either 1) resolve the inert issue by, for example, removing the inert, substituting it with an approved inert, submitting documentation that EPA approved the inert for the proposed pesticidal uses, correcting mistakes on the CSF, etc. or 2) provide the data to support OPP approval of the inert or 3) withdraw the application. Removing or substituting an inert ingredient will require a new CSF and may require submission of data. All information, forms, data and documentation resolving the inert issue must have been received by the Agency or the application withdrawn within the 21 day period, otherwise, the Agency will reject the application as described below.

To successfully complete this aspect of the 21 day initial content screen, applicants are **strongly encouraged** to verify that all inert ingredients have been approved for the application's uses **even if a product is currently registered** by consulting the inert Web

site [link to <http://www.epa.gov/opprd001/inerts/lists.html>] and if the inert is not approved, to **obtain the necessary inert approval prior to submitting an application to register a pesticide product containing that inert ingredient.** Some inert ingredients are no longer approved for food uses or certain types of uses. The name and/or CAS number on a CSF must match the name and CAS number on this web site. Simple typographical errors in the name or CAS number have resulted in processing delays.

If an inert is not listed on the inert ingredient web site and the applicant believes that the inert has been approved, the applicant should contact the Inert Ingredient Assessment Branch (IIAB) at inertsbranch@epa.gov and resolve the issue. Copies of the correspondence with IIAB resolving the issue should accompany the application. All new inerts except PIP inerts are reviewed by IIAB. The IIAB should also be contacted for any questions on what supporting data needs to be submitted for and the Agency's inert review process. Questions on PIP inerts should be directed to the Chief of Microbial Pesticides Branch [Link to http://www.epa.gov/opbpbpd1/biopesticides/contacts_bpdpd.htm].

When a brand, trade, or proprietary name of an inert ingredient is listed on a CSF, additional information such as an alternate name of the inert, CAS number or other information [link to <http://www.epa.gov/opprd001/inerts/tips.pdf>] must also be included to enable the Agency to determine if it has been approved. Each component of an inert mixture (including a fragrance) must be identified. In some cases, the supplier of the mixture or fragrance may need to provide this information to the Agency. Prior to the Agency's receipt of an application, applicants must arrange with a proprietary mixture or fragrance supplier to provide the component information to the Agency or promptly upon EPA's request. If the inert ingredients in a proprietary blend (including fragrances) cannot or are not identified or provided within the 21-day content review period, the Agency will reject the application.

During the 21 day content review, applicants should submit information to the individual identified by the Agency when the applicant is informed of an unapproved inert.

Unapproved Inerts Identified on CSFs

All applications except conventional new products and PIPs

Once an unapproved inert is identified on a CSF, the Agency will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Submit the information and data needed for the Agency to approve the unapproved inert. If this option is selected and implemented, the Agency may request an extension in the PRIA decision review timeframe to accommodate the inert review/approval process;

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of these options is selected and implemented by the applicant within the 21 day content review period, the Agency will reject the application and retain 25% of the full fee of the category identified.

Conventional New Product Applications

When the Registration Division identifies an unapproved inert on a CSF with an application for a new product that the applicant has not identified as requiring an inert approval (R311, R312 or R313), it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Submit the information and data needed for the Agency to approve the unapproved inert, including any required petition to establish or amend a tolerance or exemption from a tolerance. (This option may change the PRIA category for the application, which could require a longer decision review time and a larger fee. If additional fees are due, they must be received by the Agency within the 21 day content review period.)
3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21-day content-review period, the Agency will reject the application and retain 25% of the appropriate fee for the new product-inert approval category.

PIP Applications

When the Biopesticide and Pollution Prevention Division identifies an unapproved inert on a PIP CSF and a request to approve the inert does not accompany the application, it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the spelling or name of the inert to that in 40 CFR 174, or providing documentation that the inert has been approved; or
2. Submit the information and data needed for the Agency to approve the unapproved inert. If an inert ingredient tolerance exemption petition is required, the petition must be received by the Agency and the B903 fee paid within the 21 day period. If this option is selected and implemented, the Agency will discuss harmonizing the timeframe for both actions.

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21 day content review period, the Agency will reject the application and retain 25% of the fee.

B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.

C. Biopesticide applicants are advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

January 20, 2010

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

OPP Decision Number: D-426495
EPA File Symbol or Registration Number: 67619-21
Product Name: CARB
EPA Receipt Date: 19-Jan-2010
EPA Company Number: 67619
Company Name: CLOROX PROFESSIONAL PRODUCTS CO

J. EVELYN LAWSON
CLOROX PROFESSIONAL PRODUCTS CO
C/O PS&RC, PO Box 493
PLEASANTON, CA 94566-0803

SUBJECT: Receipt of Registration Amendment Subject to Registration Service Fee

Dear Registrant:

The Office of Pesticide Programs has received your amendment and certification of payment. If you submitted data with this application, the results of the PRN-86-5 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: A570

AMENDMENT;NON-FAST TRACK;

No additional payment is due at this time.

If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman at (703) 308-6432.

Sincerely,

A handwritten signature in cursive script that reads "Teresa Downs".

Front End Processing Staff
Information Technology & Resources Management Division

Fee for Service

{865767}~

This package includes the following

- ☐ New Registration
- ☒ Amendment

☒ Studies? ☐ Fee Waiver?
☐ volpay % Reduction: ____

for Division

- ☒ AD
- ☐ BPPD
- ☐ RD

Risk Mgr. 34

Receipt No.

S-

865767

EPA File Symbol/Reg. No.

67619-21

Pin-Punch Date:

1/19/2010

☐ This item is NOT subject to FFS action.

Action Code:

Requested: A570

Granted: A570

Amount Due: \$ 3,308

Parent/Child Decisions:

☒ Inert Cleared for Intended Use

☐ Uncleared Inert in Product

Reviewer: Team 1 Date: 1-20-10

Remarks:

Material to be added to an e-Jacket/Jacket

Reg. No. 67619-21

Description: 2 revised CSFs + 2 new alternate CSFs

1. ☒ Placement within the e-Jacket/jacket:

☐ Default: (chronological, top = newest)

☐ File Location: (PDF page number, i.e., "before page 45")

4 New CSFs

2. ☐ Send to Data Extraction contractors this material:

☐ Newly stamped accepted label

☐ Notification

☒ New CSF (4) tho

☐ Other: _____

3. Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer's Name: Yvonne A. GARVE

Phone: 703-308-0034

Division: AD

Date: 2/1/10

RISK ASSIGNMENT FORM
Antimicrobial Division/Regulatory Management Branch II

A	Completed by Product Manager						
PRODUCT REVIEWER: HEATHER GARVIE						RMB <u>II</u> TEAM <u>34</u>	
Description of Action: CSF AMENDMENT						EPA File Symbol/Reg No. 67619-21	
Decision No. <u>424214</u>		Submission No. <u>863222</u>			Fee for Service Action Code:		
FQPA Action Code: 362		Non-FQPA Action Code:			PRIA FEE AMOUNT: \$		
	MONTH	DAY	YEAR				
APPLICATION DATE	11	25	2009				
EPA PIN DATE	11	30	2009				
DATE PM RECEIVED FROM FRONT END	12	02	2009				
Date sent to Reviewer	12	03	2009				
DATE SENT TO SCIENCE <small>[VIVIAN COMPLETES]</small>			2009				
DATE RECEIVED FROM SCIENCE							
NEGOTIATED DUE DATE				DATE DUE OUT OF AGENCY		<u>2/28/10</u>	
Type of Data:	PSB Product Chemistry <input checked="" type="checkbox"/>	PSB Acute Toxicology	PSB Efficacy	RASSB Environmental Fate	RASSB Ecological Effects	RASSB Chronic Toxicology	RASSB Exposure/Residue
COMMENTS: REVISED CSF							
ATTACHMENTS: <input type="checkbox"/> -LABELING <input checked="" type="checkbox"/> -CSF(S) <input type="checkbox"/> -DATA <input type="checkbox"/> -OTHERS							
DATE FEE PAID:				RESPONSE CODE: <u>1155</u> RESPONSE DATE: <u>2/2/10</u>			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

FEB - 2 2010

OFFICE OF
PREVENTION,
PESTICIDES
AND TOXIC SUBSTANCES

J. Evelyn Lawson
Clorox Professional Products Company
c/o PS&RC
PO Box 493
Pleasanton, CA 94566-0803

Subject: **Carb**
EPA Registration Number: 67619-21
Amendment Date: November 25, 2009
EPA Receipt Date: November 30, 2009

Dear Ms. Lawson:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

Proposed Amendment

- Revise basic Confidential Statement of Formula (CSF) & revise alternate (A02) CSF which are to supercede all previous CSFs for the respective formulations
- Submission of two new alternate CSFs (A02 and A03)

Product Chemistry

The following product chemistry study was submitted in support of this product.

Study	MRID Number	Study Status
Product Chemistry – Carb	47925601	Acceptable

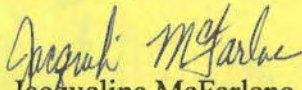
General Comments

The revised basic Confidential Statement of Formula (CSF) & revised alternate (A02) CSF dated 01/27/2010 supersede all previously accepted CSFs for the respective formulations. Additionally, the two new alternate CSFs (A02 and A03) dated 1/27/2010 are acceptable. Copies of the CSFs have been inserted in your file for future reference.

Should you have any questions concerning this letter, please contact me by telephone at

(703) 308-6416 or email at: campbell-mcfarlane.jacqueline@epa.gov or Heather Garvie by telephone at (703) 308-0034 or email at: garvie.heather@epa.gov

Sincerely,



Jacqueline McFarlane
(Acting) Product Manager (34)
Regulatory Management Branch II
Antimicrobials Division (7510P)

Enclosure: DER D372066; Product Chemistry Review approval dated January 27, 2010



United States
Environmental Protection Agency
 Washington, DC 20460

☐ Registration
☒ **Amendment**
☐ Other

479256-00

Application for Pesticide - Section I

1. Company/Product Number 67619-21	2. EPA Product Manager ShaRon Carlisle	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Carb	PM# 34	
5. Name and Address of Applicant (Include ZIP Code) Clorox Professional Products Company c/o PS&RC; P. O. Box 493 Pleasanton, CA 94566-0803 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input checked="" type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

We are submitting 2 revised Confidential Statements of Formula (CSFs), and 2 new CSFs (A02 and A03). Revisions to each CSF are highlighted. We will be submitting identical CSFs under Brac, EPA Reg. No. 5813-97. We request that both sets of CSFs be reviewed by the same chemistry reviewer. We enclose a product chemistry volume for the new sources of ethanol, and also enclose a transmittal document. We are sending 3 copies of the product chemistry volume. Finally, we are enclosing a justification for wider CSF limits. We enclose 1 original + 1 copy of each CSF.

MRID

47925601

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name J. Evelyn Lawson	Title Senior Regulatory Information Scientist	Telephone No. (Include Area Code) (925) 425-6842	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Scientist		
4. Typed Name Elisa Estremera-Pasky	5. Date November 25, 2009		



United States
Environmental Protection Agency
Washington, DC 20460

Registration
☒ Amendment
☐ Other

OPP Identifier Number

EE0059A

Application for Pesticide - Section I

1. Company/Product Number 67619-21	2. EPA Product Manager ShaRon Carlisle	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Carb	PM# 34	
5. Name and Address of Applicant (Include ZIP Code) Clorox Professional Products Company c/o PS&RC; P. O. Box 493 Pleasanton, CA 94566-0803 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input checked="" type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

We are submitting 2 revised Confidential Statements of Formula (CSFs), and 2 new CSFs (A02 and A03). Revisions to each CSF are highlighted. We will be submitting identical CSFs under Brac, EPA Reg. No. 5813-97. We request that both sets of CSFs be reviewed by the same chemistry reviewer. We enclose a product chemistry volume for the new sources of ethanol, and also enclose a transmittal document. We are sending 3 copies of the product chemistry volume. Finally, we are enclosing a justification for wider CSF limits. We enclose 1 original + 1 copy of each CSF.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	
				<input type="checkbox"/> Plastic	
				<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted					
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name J. Evelyn Lawson		Title Senior Regulatory Information Scientist		Telephone No. (Include Area Code) (925) 425-6842	
<p align="center">Certification</p> <p>I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.</p>					
2. Signature 		3. Title Regulatory Scientist		6. Date Application Received (Stamped) 	
4. Typed Name Elisa Estremera-Pasky		5. Date November 25, 2009			

TRANSMITTAL DOCUMENT

1. Name and address of submitter

Clorox Professional Products Company
c/o PS&RC
P.O. Box 493
Pleasanton, CA 94566-0803
Attention: J. Evelyn Lawson

2. Regulatory action in support of which this package is submitted

Carb, EPA Reg. No. 67619-21
Submission of supplemental product chemistry

This also supports Brac, EPA Reg. No. 5813-97

3. Transmittal date

November 23, 2009

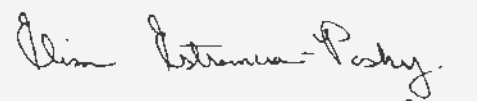
4. Submitted study

Vol. II - Product Chemistry - Carb
EPA Reg. No. 67619-21
Guideline 830-1600

MRID assigned: 47925601

Company Official: Elisa Estremera-Pasky

Company Name: Clorox Professional Products Company
Company Contact: J. Evelyn Lawson
Phone: (925) 425-6842
Fax: (925) 425-4496
E-mail: CTCPSERC@Clorox.com



Signature





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF
PREVENTION,
PESTICIDES
AND TOXIC
SUBSTANCES

January 27, 2010

DP BARCODE: D372066

MRID: 47925601

SUBJECT: Carb

REG. NO. OR FILE SYMBOL: 67619-21

DOCUMENT TYPE: Product Chemistry Review

Manufacturing-use [] OR End-use Product [X]

INGREDIENTS (PC Codes): 069165, 069166, 069149, 069105, 001501

CAS Number: 32426-11-2, 5538-94-3, 7173-51-5,
68424-85-1, 64-17-5

TEST LAB: Clorox Services Company

SUBMITTER: Clorox Professional Products Company

GUIDELINE: N/A

COMMODITIES: Formulation

REVIEWER: Chris Jiang (C)

ORGANIZATION: AD

APPROVER: Karen P. Hicks

APPROVED DATE: 1/27/10

COMMENT:



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF
PREVENTION,
PESTICIDES
AND TOXIC
SUBSTANCES

January 27, 2010

MEMORANDUM

Subject: Review for 67619-21

From: Chris Jiang, Chemist
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

Chris Jiang

Thru: Karen P. Hicks, CT Team Leader
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

*Chris Jiang
for KPH*

1/27/10

To: Jacqueline Campbell-McFarlane PM 34\Heather Garvie
Regulatory Management Branch II
Antimicrobials Division (7510P)

Applicant: Clorox Professional Products Company

Formulation from Label

<u>Active Ingredient(s)</u>	<u>% by wt.</u>
Octyl decyl dimethyl ammonium chloride	0.1890 %
Diocetyl dimethyl ammonium chloride	0.0945 %
Didecyl dimethyl ammonium chloride	0.0945 %
Alkyl (50% C ₁₄ , 40% C ₁₂ , 10% C ₁₆) dimethyl benzyl ammonium chloride	0.2520 %
Ethanol	58.0600 %
<u>Other Ingredients*</u>	41.3100 %
Total	100.0000 %

*This product contains sodium nitrite

BACKGROUND:

The registrant has submitted MRID 47925601 and Confidential Statements of Formula (CSFs for the basic formulation and alternate formulation A01 dated 11/25/2009 and CSFs for alternate formulations A02 and A03 dated 1/27/2010) for this registration. The registrant wishes to update the basic formulation and alternate formulation A01. The registrant also wishes to create alternate formulations A02 and A03. This reviewer has added a label to the package.

FINDINGS:

1. The concentrations of the active ingredients on the Confidential Statements of Formula (CSFs for the basic formulation and alternate formulation A01 dated 11/25/2009 and CSFs for alternate formulations A02 and A03 dated 1/27/2010) are consistent with the label declaration. These CSFs supersede all previous CSFs for the respective formulations.
2. All ingredients are approved for use in pesticidal products.
3. The wider certified limits for all requested ingredients are **acceptable** because of manufacturing limitations. All other certified are acceptable.
4. MRID 47925601 is **acceptable**.

CONCLUSIONS:

Product Science Branch of Antimicrobials Division finds the data and the CSFs for 67619-21 to be acceptable.

Receipt for Section 3

S: 863222

Resubmission: ☐ Yes ☒ No

Regulatory Type: Product Registration - Section 3

Fee For Service: ☐ Yes ☒ No

Application Type: Amendment

Billable: ☐ Yes ☒ No

Company: 87619 CLOROX PROFESSIONAL PRODUCTS CO

V

Risk Manager: Antimicrobials Division, Risk Management Team 34

Product #: 87619-21 Product Name: CARB

Override#:

Me Too

Me Too

Section3:

Product Name:

Application Date: 25-Nov-2009

ie

OPP Rec'd Date: 30-Nov-2009

ie

Front End Date: 30-Nov-2009

ie

Risk Manager Send Date: 01-Dec-2009

ie

FFS Due Date: 28-Feb-2010

Negotiated Due Date:

OPP Target Date:

Fast Track: ☒

New Ingredient: ☐

Receipt Description:

CSF amendment

New Ingredient

Request Date:

New Ingredient

Received Date:

Form A: ☐

Signature Date:

Form B: ☐

Signature Date:

Print Letter

Enter More Information

Tracking

Receipt Content

Des

Study

CSF

View/Edit



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

December 1, 2009

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

J. EVELYN LAWSON
CLOROX PROFESSIONAL PRODUCTS CO
C/O PS&RC, PO Box 493
PLEASANTON, CA 94566-0803

PRODUCT NAME: CARB
COMPANY NAME: CLOROX PROFESSIONAL PRODUCTS CO
OPP IDENTIFICATION NUMBER:
EPA FILE SYMBOL: 67619-21
EPA RECEIPT DATE: 11/30/09

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Antimicrobials Division, Risk Management Team 34, at (703) 308-6422.

Sincerely,

P. A. Keane
Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division

Fee for Service

^{sum} {863222v~

This package includes the following

- ☐ New Registration
- ☒ Amendment

☐ Studies? ☐ Fee Waiver?

☐ volpay % Reduction: ____

for Division

- ☒ AD
- ☐ BPPD
- ☐ RD

Risk Mgr. 34

Receipt No.

S- 863222

EPA File Symbol/Reg. No.

67619-21

Pin-Punch Date:

11/30/2009

☒ This item is NOT subject to FFS action.

Action Code:

Requested:

Granted:

Amount Due: \$ ____

Parent/Child Decisions:

☐ Inert Cleared for Intended Use

☐ Uncleared Inert in Product

Reviewer: Mail Code Team #3

Date: 12/01/09

Remarks:

Heather Lawrence

Memorandum

308-0034

Date: 12/07/09

To: PM 34, Regulatory Manager

From: Information Services Branch, ITRMD

Your receipt of this data submission is not an indication that MRIDs for the enclosed studies have been posted to OPPIN.

We expect that it will be approximately 5 days from the above date before the study-level data is available in OPPIN.

If you have any questions about this process, please contact Teresa Downs (305-5363).

This is a: ☒ fully accepted submission
☐ partially accepted submission
☐ rejected submission



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

December 7, 2009

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

CLOROX PROFESSIONAL PRODUCTS CO
C/O PS&RC, PO Box 493
PLEASANTON, CA 94566-0803

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your submittal of 30-NOV-09. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.

Material to be added to an e-Jacket/Jacket

Reg. No. 67619-21

1. ☐ Placement within the e-Jacket/jacket:
- ☐ Default: (chronological, top/newest)
 - ☐ Description: (PDF page number, i.e., "before page 45")
- _____
- _____

2. ☒ Send to Data Extraction contractors this material:

- ☐ Newly stamped accepted label
- ☒ Notification
- ☐ New CSF
- ☐ Other: _____

3. Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer's Name: Renee Whitaker

Phone: _____ Division: AD

Date: 10/8/09

Created July 21/2008

RISK ASSIGNMENT FORM
Antimicrobial Division/Regulatory Management Branch II

A	Completed by Product Manager						
PRODUCT REVIEWER: RENAE WHITAKER					RMB <u>II</u> TEAM <u>34</u>		
Description of Action: NOTIFICATION					EPA File Symbol/Reg No. 67619-21		
Decision No. <u>421043</u>		Submission No. <u>859320</u>		Fee for Service Action Code:			
FQPA Action Code: 332		Non-FQPA Action Code:		PRIA FEE AMOUNT: \$			
	MONTH	DAY	YEAR				
APPLICATION DATE	SEPT	25	2009				
EPA PIN DATE	SEPT	28	2009				
DATE PM RECEIVED FROM FRONT END	SEPT	29	2009				
Date sent to Reviewer	SEPT	29	2009				
DATE SENT TO SCIENCE <small>[VIVIAN COMPLETES]</small>			2009				
DATE RECEIVED FROM SCIENCE							
NEGOTIATED DUE DATE				DATE DUE OUT OF AGENCY		<u>10/28/09</u>	
Type of Data:	PSB Product Chemistry	PSB Acute Toxicology	PSB Efficacy	RASSB Environmental Fate	RASSB Ecological Effects	RASSB Chronic Toxicology	RASSB Exposure/Residue
COMMENTS: ALT. BRAND NAME							
ATTACHMENTS: <input checked="" type="checkbox"/> -LABELING <input type="checkbox"/> -CSF(S) <input type="checkbox"/> -DATA <input type="checkbox"/> -OTHERS							
DATE FEE PAID:			RESPONSE CODE: <u>1155</u> RESPONSE DATE: <u>10/8/09</u>				



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OCT 8 2009

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Julie Timberman
Senior Regulatory Scientist
Product Safety Regulatory Compliance
Clorox Professional Products Company
P.O. Box 493
Pleasanton, CA 94566-0803

Subject: Notification in Accordance with PR Notice 98-10
Carb
EPA Registration No. 67619-21
Application Date: August 10, 2009
Receipt Date: September 28, 2009

Dear Ms. Timberman:

This acknowledges receipt of your notification, submitted under the provision of PR Notice 98-10, FIFRA section 3(c)9.

Proposed Notification

Additional brand name:
Clorox Commercial Solutions® Clorox® Disinfecting Spray

The notification is acceptable. A copy has been inserted in your file for future reference.

Should you have any questions concerning this letter, please Renae Whitaker by telephone at (703) 308-7003 or email at whitaker.renae@epa.gov during the hours of 8:00 am to 3:30 pm EST. When submitting information or data in response to this letter, a copy of this letter should accompany the submission to facilitate processing.

Sincerely,

ShaRon Carlisle
(Acting) Product Manager (34)
Regulatory Management Branch II
Antimicrobials Division (7510P)



September 25, 2009

Ms ShaRon Carlisle, Product Manager 34
U.S. Environmental Protection Agency
Document Processing Desk [NOTIF]
Office of Pesticide Programs -7504P
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Subject: Carb, EPA Reg. No. 67619-21
OPP JT0002

Dear Ms. Carlisle,

We are resubmitting a notification for an alternate brand name we believe was misplaced by the Agency. Since we did not receive a letter back, we are sending a copy of our original notification.

If you have already responded to this notification, we would like to have a copy of the letter; otherwise, we would appreciate having it reviewed.

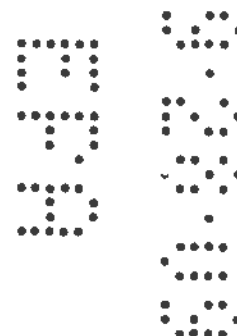
Sincerely,

A handwritten signature in blue ink, appearing to read "Julie Timberman".

Julie Timberman
Senior Regulatory Scientist
Product Safety Regulatory Compliance
Clorox Professional Products Company

c/o PS&RC
P.O. Box 493
Pleasanton, CA
94566-0803

(925) 425-6778
Fax: (925) 425-4496





United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

JT0002

Application for Pesticide - Section I

1. Company/Product Number 67619-21	2. EPA Product Manager Tracy Lantz (acting)	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Carb	PM# 34	
5. Name and Address of Applicant (Include ZIP Code) Clorox Professional Products Company c/o PS&RC; P. O. Box 493 Pleasanton, CA 94566-0803 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of Alternate Brand Name (ABN) per PR Notice 98-10: Clorox Commercial Solutions® Clorox® Disinfecting Spray
This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. § 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under § 12 and § 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	
* Certification must be submitted				<input type="checkbox"/> Plastic	
	If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

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Name J. Evelyn Lawson		Title Senior Regulatory Information Scientist	
		Telephone No. (Include Area Code) (925) 425-6842	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 		3. Title Senior Regulatory Scientist	
4. Typed Name Julie Timberman		5. Date August 10, 2009	



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

JT0003

Application for Pesticide - Section I

1. Company/Product Number 67619-21	2. EPA Product Manager ShaRon Carlisle	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Carb	PM# 34	
5. Name and Address of Applicant (Include ZIP Code) Clorox Professional Products Company c/o PS&RC; P. O. Box 493 Pleasanton, CA 94566-0803 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

NOT REVIEWED
In accordance with FR Notice 82-6
Based on Draft Labeling Dated

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated July 30, 2009
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

One copy of the final printed label is enclosed. All conditions of registration have been met. Two of those conditions resulted in a modification of claims on the master label: 1) The word "safe" was removed as requested. "Color-safe" was modified to "Color-fast." Uses of the word "safe" in the context of surface use were modified to "Will not harm." 2) The claim "recyclable" was modified to "[Please] recycle empty container."

Section - III

1. Material This Product Will Be Packaged In:					
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____					

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name J. Evelyn Lawson	Title Senior Regulatory Information Scientist	Telephone No. (include Area Code) (925) 425-6842	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 	3. Title Senior Regulatory Scientist		
4. Typed Name Julie Timberman	5. Date September 14, 2009		

Note: **Bold, italicized text** is information for the reader and is not part of the label. [Bracketed information is optional text.]
Text separated by a diamond bullet (◆) denotes -and/or- options. Underlined text is new. Strike-through (~~new~~) means removed.

CARB

ACTIVE INGREDIENTS:

Octyl decyl dimethyl ammonium chloride	0.1890%
Dioctyl dimethyl ammonium chloride	0.0945%
Didecyl dimethyl ammonium chloride	0.0945%
Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chlorides	0.2520%
Ethanol	58.0600%
OTHER INGREDIENTS†	41.3100%
TOTAL	100.0000%

† This product contains sodium nitrite

NOT REVIEWED
In accordance with FR Notice 88-2
Based on Draft Labeling Dated 7/30/09

KEEP OUT OF REACH OF CHILDREN

WARNING: See back panel for additional precautionary statements.

NET WT. 19 OZ.

This product must not result in the direct or indirect contamination of food products.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eye wear (safety glasses). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. If skin contact with product occurs, wash thoroughly with soap and water, especially prior to food handling and preparation. Remove or cover aquariums and cages before use.

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor for further treatment advice. Have the product container with you when calling a poison control center or doctor or going for treatment. Questions? Call 1-888-797-7225.

PHYSICAL HAZARDS: Flammable: Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130° Fahrenheit may cause bursting.

STORAGE AND DISPOSAL: Pesticide Storage and Disposal: Do not contaminate water, food, or feed by storage and disposal. Store at temperatures below 130° Fahrenheit. **Container Disposal:** Do not puncture or incinerate. Do not reuse empty container. [Please] recycle empty container or discard in trash.

-or-

This container may be recycled in aerosol recycling centers. At present, there are only a few such centers in the U.S. Before offering for recycling, empty the can by using the product according to the label. (DO NOT PUNCTURE!) If recycling is not available, wrap the container and discard in the trash.

-or-

Empty the can by using the product according to the label. (DO NOT PUNCTURE) Some recycling centers accept these steel containers. Otherwise, wrap container and discard in trash.



Questions? Comments? Call toll-free 1-888-797-7225
Mfd. for Clorox Professional Products Company, Oakland, CA 94612
© 2009 The Clorox Company
EPA Reg. No. 67619-21
EPA Est. No. 58996-MQ-1, 5813-CA-5, 71681-GA-1, IL-1, IL-2, 81368-OH-1

Made in [the] USA
Contains no phosphorus
Contains no CFCs or other ozone depleting substances
Federal Regulations Prohibit CFC Propellants in Aerosols

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Text separated by a diamond bullet (◆) denotes -and/or- options. Underlined text is new. Strike-through (~~some~~) means removed.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

[Shake well.] For use on non-food contact surfaces only.

For surfaces that may come in contact with food [such as countertops and high chairs], a potable water rinse is required. Do not use on glassware, utensils or dishes.

General Claims

New[!] [& Improved] to be used as a claim descriptor only for the first 6 months of product on shelf

Claims:

- Do not use on [polished] wood, painted surfaces, acrylic plastics
- Bleach-free
- Clear formula
- Color fast
- Commercial Solutions®
- Contains no abrasives, harsh acids
- Contains no bleach
- Convenient
- Does not contain bleach
- Easy to use
- Eliminates -or- Removes [kitchen] [bathroom] odors
- For Professional Use
- For use in homes
- For use on both white and colored hard surfaces
- Formula for bathrooms -and/or- kitchens

- Great for everyday use [in the kitchen -or- bathroom]
- Great for Kitchen[s] -and/or- Bathroom[s] [too]
- [Great] For Everyday Use [in Kitchens and Bathrooms]
- Great in the Kitchen and Bathroom
- Institutional [size]
- Kitchen formula
- Made for kitchen surfaces and odors
- Multi-Surface
- No mixing
- No Unpleasant Odors
- Non-abrasive formula [will not scratch surfaces]
- Non-Chlorine Formula: Will not bleach clothing or colored surfaces
- Prevents [odors]
- Professional size
- Will not harm most hard, nonporous surfaces
- Will not harm Special -or- Premium Surfaces

DEODORIZATION

To deodorize: Spray on precleaned surfaces as needed.

Claims:

- Deodorizes -and/or- disinfects -or- helps deodorize
- Deodorizer [for Institutional Use]
- Deodorizes food odors [like garlic and onion] [left behind on kitchen surfaces] [after cooking]
- Eliminates mold odor[s]
- Eliminates odors caused by bacteria [and non-fresh foods]
- Eliminates -or- reduces [kitchen] odors [in the trash can -or- recycling bin odors -or- smells] [caused by germs or bacteria]
- Eliminates pet odors caused by germs or bacteria

- Kills odor causing bacteria in the kitchen -or- bathroom
- Kills odor causing bacteria -or- germs
- Kills -or- eliminates bacteria that cause [bad] odors
- [This product] deodorizes areas that are hard to keep fresh smelling, in the [insert use sites from Tables 1-5]
- [This product] will deodorize hard, nonporous surfaces [including [insert surface[s] from Tables 1-5] [use site[s] from Tables 1-5]] [where obnoxious odors may develop]
- [This product] will deodorize surfaces in [insert site[s] from Tables 1-5]
- Removes -or- Eliminates odors

DYE & SCENT DESCRIPTORS AND CLAIMS:

- Contains no [dyes] [added colors]
- Dye-Free
- Free of Added -and/or- Dyes -and/or- Colors
- Free -or- clear of dyes

- Fresh scent formula
- Fresh Scented
- Has a fresh scent -or- fragrance -or- smell

MOLD

To control and prevent the growth of mold:

Spray precleaned surface until thoroughly wet. Surface must remain wet for 1 minute before wiping or air drying. Respray product as necessary for ongoing -or- continual control.

Claims:

- Controls [and] [prevents] mold growth
- Kills [and prevents the growth of] mold

- This product inhibits growth of mold

Organism:

1 minute contact time:
Trichophyton mentagrophytes [ATCC 9533]

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DISINFECTION

To Disinfect: Spray 6 to 10 inches from precleaned surface for 3-4 seconds -or- until thoroughly wet. Surface must remain wet for 10 minutes. A potable water rinse is required for food contact surfaces.

Do not use on glasses, dishes, or utensils.

Claims:

- Antibacterial [spray] [action] [formula]
- An effective disinfectant for use in the kitchen, bathroom, bedroom, and other areas
- Antibacterial [Formula]
- Antibacterial Formula Disinfects
- Antibacterial -or- Germicidal [on hard, nonporous surfaces] [for Kitchens and Bathrooms]
- Antibacterial -or- Germicidal [Formula]
- Antimicrobial
- Bactericidal
- [Bathroom] [Restroom] [Kitchen] disinfectant
- Broad Spectrum Hospital Disinfectant
- Disinfects & [and] Deodorizes
- Disinfectant
- Disinfectant [for Institutional Use]
- Disinfecting formula
- Disinfecting spray
- Disinfect[s]
- Disinfects [Germs]
- Disinfects [washable] kitchen surfaces including killing [99.9% of] germs -and/or- bacteria -and/or- viruses -and/or- fungi
- Easily disinfect
- For [Hospital] [Commercial] [Industrial] & Institutional Use [Only]
- For Healthcare Use
- For Hospital Use
- Fungicidal -or- Antifungal
- Germicidal
- Hospital disinfectant
- Kills 99.9% of Bacteria
- Kills [99.9% of] Germs
- Kills [99.9% of] [kitchen] [bathroom] bacteria
- Kills [99.9% of] see organism list
- Kills Avian Influenza**
- Kills bacteria -or- germs -or- viruses on washable kitchen -and/or- bathroom surfaces and fixtures
- Kills bacteria -or- viruses
- Kills Flu Virus[t] [Influenza A]
- Kills [household] bacteria [without bleaching]
- Kills Influenza A virus [, the virus that causes the common flu]
- Kills [Salmonella enterica] [kitchen bacteria]
- Leaves hard, nonporous surfaces sanitary -or- disinfected in 10 minutes
- Multi-purpose disinfectant [spray]

- Provides broad spectrum kill of Gram negative and Gram positive micro-organisms
- Pseudomonacidal
- Ready to use disinfectant
- Ready to use formula provides disinfecting and deodorizing
- Spray
- Staphylocidal
- [This product] deodorizes and disinfects hard, nonporous surfaces -or- list any use sites: Tables 1-5
- [This product] is a no rinse disinfectant that disinfects, and deodorizes in one labor saving step
- This product is a Broad Spectrum disinfectant, bactericidal according to the AOAC Germicidal Spray Products test method
- This product is effective against the pathogenic fungi Trichophyton mentagrophytes (Athlete's Foot Fungus) when used as directed for disinfection with a contact time of 1 minute on hard, nonporous surfaces in bathrooms, including shower stalls, floors, and glazed bathroom tiles
- [This product] kills 99.9% of bacteria & viruses
- [This product] kills bacteria, viruses and mold
- [This product] kills germs throughout the kitchen -or- restaurant -or- establishment -or- building on hard, nonporous surfaces plus controls mold growth
- This product meets AOAC Germicidal Spray Product Test efficacy standards for hospital disinfectants
- [This product] will disinfect hard, nonporous surfaces [*insert surface[s] from Tables 1-5*] [*use site[s] from Tables 1-5*]
- Use [this product] to disinfect nonporous [*insert use sites/surfaces from Tables 1-5*]. [Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (120°), and allow to air dry.
- Virucidal -or- Antiviral
- {Virucidal} [Bactericidal] [Pseudomonacidal] [Fungicidal] [Deodorizer]

**Kills Avian Influenza virus on precleaned environmental surfaces

†Influenza A

Germicidal against the following [organisms]: -or- [This product] kills the following [organisms]: -or- Disinfects against the following [organisms] -and/or- Fungicidal -and/or- Virucidal:

Organisms:
See organism list

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DISINFECTION continued**Organisms:**

[This product] kills germs: -or- Kills -or- Disinfects against the following bacteria, viruses, mold:

ORGANISMS:**Bacteria:****3 minute contact time:**

Acinetobacter baumannii	[ATCC 15308]
Community-associated Methicillin resistant Staphylococcus aureus, (CA-MRSA Genotype 300)	[Genotype 300]
Escherichia coli O157:H7	[ATCC 35150]
ESBL (Extended Spectrum Beta Lactamase) producing Escherichia coli (ESBL producing E. coli)	[ATCC BAA-196]
Methicillin resistant Staphylococcus aureus, (MRSA 100)	[Genotype USA 100 NARSA NRS382]
Methicillin resistant Staphylococcus aureus, (MRSA 200)	[Genotype USA 200 NARSA NRS383]
Methicillin-resistant Staphylococcus aureus	[ATCC 33591]
Pseudomonas aeruginosa	[ATCC 15442]
Salmonella enterica	[ATCC 10708]
Staphylococcus aureus	[ATCC 6538]
Vancomycin-resistant Enterococcus faecalis (VRE)	[ATCC 51299]

Fungus:**1 minute contact time:**

Trichophyton mentagrophytes	[ATCC 9533]
-----------------------------	-------------

Viruses (non-enveloped):**30 second contact time:**

Rhinovirus 39	[ATCC VR-340]
---------------	---------------

10 minute contact time:

Poliovirus [type 1] [Polio]	[ATCC VR-1562]
-----------------------------	----------------

Viruses (enveloped):**30 second contact time:**

Avian Influenza	[H5N1 N18RG-14]
Bovine viral diarrhea virus (human Hepatitis C virus surrogate)	
Human Influenza A virus	[A/PR/8/34 (H1N1)]

Environmental Text:

[Important Facts about this product:]

- This can is made from an average of 25% recycled steel (10% post-consumer)

- Encourage your local authorities to establish a program to recycle this can
- [Please] Recycle empty container.

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TABLE 1 Medical:

USE SITES

Ambulances -or- [Emergency Medical] Transport Vehicles
Anesthesia Rooms -or- Areas
[Assisted Living -or- Full Care] Nursing Homes
CAT Lab[oratories]
Central Service Areas
Central Supply Rooms -or- Areas
Critical Care Units -or- CCUs
Doctor's Offices
Donation Centers [blood] [plasma] [semen] [milk] [apheresis]
Emergency Rooms -or- ERs
Eye Surgical Centers
Health Care Settings -or- Facilities
Home Health Care [Settings]
Hospices

Hospitals
[Hospital] Kitchens
Intensive Care Units -or- ICU[s] [areas]
Laboratories
Laundry Rooms
Long Term Care Facilities
[Medical] Clinics [Facilities]
Medical Facilities
Medical -or- Physician's -or- Doctor's Offices
Newborn -or- Neonatal [Nurseries] [Intensive Care] Units [NICU]
Nursing Homes
Nursing -or- Nurses' Stations
Operating Rooms
Ophthalmic Offices
Orthopedics
Outpatient [Surgical Centers (OPSC)] [Clinics] [Facilities]

Patient Areas
Patient Restrooms
Patient Rooms
[Pediatric] Examination Rooms -or- Areas
Pediatric Intensive Care Units [PICU]
Pharmacies
Physicians' Offices
Physical Therapy Rooms -or- Areas
Psychiatric Facilities
Public Areas
Radiology -or- X-Ray Rooms -or- Areas
Recovery Rooms
Rehabilitation Centers
Surgery Rooms -or- Operating Rooms -or- ORs
Waiting Rooms -or- Waiting Areas

HARD, NONPOROUS SURFACES ASSOCIATED WITH THE FOLLOWING

anesthesia machines
apheresis machines
autoclaves
bathroom doorknob
bedpans
bedpan cleaner
bedrails
[bedside] commodes
bedside tables
blood pressure cuffs
blood pressure (BP) monitors
cabinets
call boxes
CAT -or- Computerized Axial Tomography equipment
carts
chairs
charging stations
computer peripherals
computer screens
computer tables
cords
counters
[crash] [emergency] carts
diagnostic equipment

docking stations
edges of privacy curtains
[exam -or- examination] tables
external surfaces of [medical] equipment -or- [medical] equipment surfaces
[external] [surfaces of] ultrasound transducers (-and/or- probes)
gurneys
hard, nonporous hospital -or- medical surfaces [hospital -or- patient] bed(s) [springs] [railings] -or- linings -or- frames
IV [stands] [pumps] [poles]
keyboards
large surfaces
loupes
mammography equipment
medication carts
mobile workstations
mouse pads
MRI -or- Magnetic Resonance Imaging equipment
operating room tables and lights
operating room light switches
overbed tables
paddles
patient chairs
plastic -or- vinyl mattress covers

patient monitoring equipment
patient support and delivery equipment
phlebotomy trays
physical therapy (pt) equipment surfaces
pulse oximeters
PVC tubing
reception counters -or- desks -or- areas
remote controls
respiratory therapy equipment
scales
sequential compression devices
side rails
slit lamps
small surfaces
spine backboards
stethoscopes
stools
stretchers
surfaces in and around toilets in patient rooms
toilet handholds
traction devices
walls [around toilet] [in patient rooms]
wash basins
wheelchairs
x-ray equipment

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

PERSONAL PROTECTIVE SAFETY EQUIPMENT

face shields
goggles
hard hats

protective headgear
silicone rubber -or- PVC hearing protectors

spectacles
vinyl covered earmuffs

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Use on non-critical surfaces in:**TABLE 2 Dental:****USE SITES**

Dental Offices
Examination Rooms
Dental Operatories
Dental -or- Dentists' Offices

SURFACES

amalgamators -and/or- dental curing lights
dental countertops
dental operatory surfaces
dentists' -or- dental chairs

endodontic equipment such as apex locators
hard, nonporous [environmental] dental surfaces
light lens covers
pulp testers and motors
reception counters -or- desks -or- areas

TABLE 3 Veterinary and Farm:**USE SITES**

Animal Life Science Laboratories
Animal [Pet] Housing [Kennels] [Facilities]
Animal Holding Areas
[Animal -or- Pet] Grooming Facilities
Animal Transportation Vehicles
Breeding Establishments
Equine Farms

Farms
Kennels
Livestock -and/or- Swine -and/or- Poultry Facilities
Pet [Areas] [Quarters]
Pet Shops -or- Stores
Small Animal Facilities
Tack Shops

Veterinary Clinics -or- Facilities
Veterinary -or- Animal Hospitals
Veterinary [Offices] [Waiting Rooms]
Veterinary [Examination Rooms]
Veterinary [X-ray Rooms]
Veterinary [Operating Rooms]
Zoos

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

SURFACES

animal equipment
around troughs
automatic feeder exteriors
empty cages
external surfaces of [veterinary] equipment

feed rack exteriors
fountains
hard, nonporous [environmental] veterinary surfaces
pens

reception counters -or- desks -or- areas
stalls
veterinary care surfaces
watering appliance exteriors

TABLE 4 Food Service:**USE SITES**

Banquet Halls
Bars
Cafeterias
Catering Facilities
Commercial -or- Institutional Kitchens

Delis [Delicatessens]
Fast Food Chains -or- Restaurants
Food Preparation and Processing Areas
Food [Service -or- Processing] Establishments
Food Serving Areas

Other Food Service Establishments
Restaurants
School Kitchens

SURFACES

any washable (food and non-food contact) surface
where disinfection is required
appliances
dish racks
drain boards
food cases
food trays
freezers

hoods
microwave[s] [exteriors]
oven[s] [exteriors]
plastic -or- metal outdoor furniture
(excluding wood frames and upholstery)
refrigerator[s] [exteriors]
salad bar sneeze guards
stoves -or- stovetops

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TABLE 5 Miscellaneous/General:**USE SITES**

Airplanes [Airports]
Ambulances
Athletic [Recreational] Facilities
Automobiles
Barber Shops
Basements
Bathrooms
Bathroom -or- Locker Room
Facilities
Beauty Salons
Bedrooms
Blood Banks
Boats
Bowling Alleys
Buses
Butcher Shops
Cafeterias
Campers
Cars
Churches
Colleges
Convenience Stores
Correctional Facilities
[Damp] Storage Areas
Day Care Centers
Dens
Dorms
Dormitories
Elevators
Emergency Vehicles
Factories
Fast Food Restaurants
[Food Processing] Plants
Funeral Homes
Garages
[Garbage] [Waste] Storage Areas

Gas Stations
Grocery Stores
Gymnasiums -or- Gyms
Health Club[s] [Facilities]
Homes
Home Centers
Hotels
Industrial Facilities
Institutional Kitchens
[Institutional] Laundromats
Institutions
Kennels
Kitchen[s] [surfaces]
Laboratories
Laundromats
Laundry Rooms
Lavatories
Locker Rooms
Lodging Establishment
Lounges
Malls
[Manufacturing] Plants
Manufacturing Plants -or- Facilities
Markets
Mass Merchandisers, Discount Retailers
-and/or- General Merchandise Stores
Military Installations
Mobile Homes
Mortuaries
Motels
Motor Homes
Mudrooms
Nurseries
Office[s] [Buildings]
Pet Areas
Pharmacies

Play Areas -or- Rooms
Playgrounds
[Police -and/or- Fire] Vehicles
Produce Areas
Public Areas
Public Facilities
Public Restrooms
Public Telephone[s] [Booths]
Recreational Centers -or- Facilities
Rental Cars
Rest Stops
Restaurants
Restrooms -or- Restroom Areas
Retail businesses
School Buses
Schools
Shelters
Ships
Shopping Centers
Shops
Shower Rooms
Sports Arenas
Storage Rooms -or- Areas
Subways
Supermarkets
Toolsheds
Transportation Terminals
Trains
Trolleys
Universities
Vacation Homes
Warehouse Clubs

A potable water rinse is required for food contact surfaces.
Do not use on glassware, utensils, or dishes.

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TABLE 5 Miscellaneous/General: continued

SURFACES

appliance exterior[s] [surfaces]	dressing carts	lockers	sports equipment
appliance -or- cabinet knobs	elevator buttons	[medicine] cabinets	stainless steel
baked enamel	exercise machines	metal	stall doors
bassinets	exhaust fans	metal blinds	staplers
[bathroom] fixtures	exterior -or- external toilet surfaces	metal work benches	stovetops -or- stoves
[bathroom] [kitchen] faucet[s]	exterior -or- external urinal surfaces	microwave exterior	synthetic marble
[handles]	exterior surfaces of	office machinery	tables [tabletops]
[bath]tubs	urinals -and/or- toilets	office -or- bedroom -or-	[tiled] walls
bed frames	faucets	bedside furniture	tires
behind and under counters	fax machine[s] [handles]	other telecommunication	[toilet [flush]] [telephone] [cabinet]
behind and under sinks	[filing] [medicine] cabinets	equipment surfaces	[dishwasher] [door] handles
boats	finished hardwood	outdoor grill exteriors	toilet -and/or- urinal exterior[s]
booster chairs	finished -or- painted woodwork	outdoor -or- patio furniture	[surfaces] -or- exterior toilet
burner trays	finished windowsills	oven doors	surfaces toilet[s] [handle] [rims]
cabinets	fixtures	pet areas -or- surfaces	[seats] [tops]
car interiors	floors [around toilets]	phones	tools
carts	furniture	plastic laundry hampers -or- baskets	towel dispensers
chairs	freezer exteriors	plastic patio furniture	toy boxes -or- storage bins
[children's] furniture	garage surfaces	-or- lawn chairs	trailers
closets	garbage -or- trash cans	plastic shower curtains	[training] toilets
[clothes] [diaper] hampers	glazed ceramic [restroom surfaces]	plastic surfaces associated with:	trash cans -or- compactors
coated ceilings	glazed [ceramic] tile[s]	floors, walls, fixtures, toilets,	tray tables
[computer] keyboards	glazed porcelain [tiling -or- tile]	urinals, sinks, shower rooms	tubs
cooler exteriors	[grocery [store] -or- supermarket]	and locker rooms	urinals
counters -or- countertops	carts	playground equipment	vanity tops -or- vanities
cupboards	[grocery [store] -or- supermarket]	playpens	vehicles
cribs	cart handles	portable toilet exteriors	vending machine surfaces
crystal (non-food contact areas)	[grocery [store] -or- supermarket]	[public -or- pay] telephones	[vinyl] linoleum -or- wallpaper
desk[s] [tops]	cart child seats	-or- phone booths	walkers
[diaper -or- infant] changing [tables]	gym[nastic] equipment	range hoods	walls
-or- areas [stations]	hampers	recycling bins	[washable] floors [including
diaper pails	(hand)railings -or- rails	refrigerator door handles	linoleum, no-wax, vinyl, and
dictating equipment [surfaces]	[hard] plastic -or- vinyl	refrigerator exterior	glazed ceramic tile]
[dining] [fast food] [kitchen] [picnic]	headsets	RVs	washable kitchen surfaces
[play] [restaurant] [tray] tables	high chairs (non-food contact	sealed fiberglass	[washable] walls
dining room surfaces -and/or- tables	areas)	shelves [and drawers]	washers/dryers -or-
-and/or- fast food restaurant tables	[kids'] play [structures]	shower[s] [area] [curtains]	washing machine exterior[s]
door[s] [handle[s]] [frame[s]]	[equipment] [furniture] [tables]	[doors] [stalls] [walls]	wastebaskets
doorknobs	[kitchen] appliance exteriors	signs	whirlpool tubs
drain boards	light fixtures -or- switches -or- panels	sink[s] [basins]	window [blinds] [shades]
drawer pulls	linoleum	seats	windshields
			wrestling mats

SURFACE MATERIALS

[baked] enamel	glazed tile	stainless steel	Do Not Use On
chrome	laminated surfaces	synthetic marble	acrylic plastics
[common] hard, nonporous	Marlite	vinyl [tile]	natural marble
[household -or- environmental]	painted surfaces	similar hard, nonporous	painted surfaces
surfaces	plastic [laminated]	surfaces except for those	paper surfaces
Formica	plexiglass	excluded by the label	[polished] wood
glazed ceramic [tile]	porcelain enamel		rubber
glazed porcelain	sealed fiberglass		unfinished wood

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ASSIGNMENT FORM
Antimicrobial Division/Regulatory Management Branch II

needs to
be changed
↓ to 34

PRODUCT REVIEWER: Renae Whitaker				RMB II TEAM 34			
Description of Action: New product, different formulation, w/ chemistry, efficacy, tox bridging				EPA File Symbol/Reg No. 67619-ER			
Decision No.		Submission No.		Fee for Service Action Code: A54C			
FQPA Action Code: XXXX		Non-FQPA Action Code:		PRIA FEE AMOUNT: \$ 4410			
		DAY	MONTH	YEAR <i>paid</i>			
APPLICATION DATE		5	3	2009			
EPA PIN DATE		9	3	2009			
DATE RISK MANAGER RECEIVED FROM FRONT END		31	3	2009			
PRIA DUE DATE							
EXPECTED DATE FROM CTT							
PM DUE DATE		30	7	2009			
Type of Data:	PSB Product Chemistry ✓	PSB Acute Toxicology ✓ <i>Bridging</i>	PSB Efficacy ✓	RASSB Environmental Fate	RASSB Ecological Effects	RASSB Chronic Toxicology	RASSB Exposure/Residue
Comments: Karen - Please do bridging for acute tox. Citing data from 5813-67. Karen - Please review product chemistry. 47696801 Tajah - Please review efficacy data - 47696802 - 47696818 Clock started 3/30 Team 34 rec'd from Team 33 on 3/31/09							
ATTACHMENTS: €-LABELING €-CSF(S) €-DATA €-OTHERS							
B	For Arctic Slope Contract Only						
	Contract No.: 0052		ARCTIC SLOPE/MANAGER				
	Final Task: Signature _____						(Total hrs) _____
C	Reviewer Comments:						
DATE FEE PAID:				RESPONSE CODE:		RESPONSE DATE:	



**U.S. ENVIRONMENTAL PROTECTION
AGENCY**

Office of Pesticide Programs
Antimicrobials Division (7510C)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration

(under FIFRA, as amended)

EPA Reg.
Number:
67619-21

Date of Issuance:
JUL 30 2009

Term of Issuance:

Conditional

Name of Pesticide Product:

CARB

Name and Address of Registrant (include ZIP Code):

Clorox Professional Products, Co.
c/o PS&RC
P.O. Box 493
Pleasanton, CA 94566-0803

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

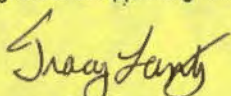
This product (OPP Decision Number: D-407020) is conditionally registered in accordance with FIFRA sec 3(c)(7)(a) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4.

2. Make the labeling changes listed below before you release the product for shipment:

a. Revise the EPA Registration Number to read, "EPA Reg. No. 67619-21".

Signature of Approving Official:


Tracy Lantz
(Acting) Product Manager Team 34
Regulatory Management Branch II
Antimicrobials Division (7510P)

Date:

JUL 30 2009

Efficacy Comments:

- b. On page two (2) under the "General Use" section delete the subheading "General Use" as per PR 2000-5 Mandatory/Advisory Language. Remove all occurrences of the word "safe" as defined in FIFRA Section 2(q)(1)(A), a pesticide is misbranded if its labeling bears any statement, design or graphic representation which is false or misleading. FIFRA Section 12(a)(1)(E) provides that it is unlawful for any person to distribute or sell any pesticide which is misbranded. EPA's regulation, at 40 CFR 156.10(a)(5), provides examples of statements that are considered to be misbranded; such as: Safety claims of the pesticide, or its ingredients, including statements such as "trusted," "safe," "nonpoisonous," "noninjurious," "harmless" or "nontoxic to humans and pets" with or without such a qualifying phrase as "when used as directed."
- c. On page two (2) under Claims change "Avoid use" to "Do not use" on... as per PR Notice 2000-5, Guidance for Mandatory and Advisory Labeling Statements.
- d. Delete "Hospital Grade Disinfectant" on page three (3). As per 40 CFR 156.10(a)(5) it is considered to be a false or misleading statement. Product labeling claims considered to be false or misleading with respect to the product's chemical composition, individual ingredients, level of activity, non-pesticidal effects, etc., include but are not limited to "hospital grade".
- e. On page four (4) of the proposed label, the term "recyclable" has not been qualified. Delete the term "recyclable."
- f. On page five (5), revise the heading "Surfaces" to state: "hard non-porous surfaces associated with the following:"
- g. Under the "Surfaces" section on page eight (8) of the proposed label, additional clarity is required for "ceiling". Ceiling materials are often porous.
- h. Under the "Surfaces" and "Surface Materials" sections on page eight (8) of the proposed label, change "fiberglass" to read "sealed fiberglass." Fiberglass is a porous surface.
- i. Under the "Surfaces" section on page eight (8) of the proposed label, change "tile" to read "glazed tile" and change "enamel" to baked enamel."
- j. The proposed label claims that the product, Carb, is streptocidal. Data were not provided to support this claim. This claim must be deleted from page three (3) of the proposed label.
- k. Add the following statement to the disinfection directions on page three (3): "A potable water rinse is required for food contact surfaces.
- l. On page eight (8) last column under "Surface Materials" revise to read: "Do not use on:" as per PR 2000-5 "Recommended" is not acceptable.

Product Chemistry Comment:

Product Science Branch of Antimicrobials Division finds the submission for 67619-21 to be acceptable, pending submission and acceptance of the joint study for storage stability and corrosion characteristics.

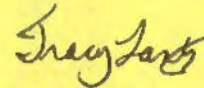
Please note the Agency is moving away from review of paper submitted registration applications to electronic review of applications. Therefore, we need your help to make this an efficient and convenient process for both you and the Antimicrobials Division. Future labeling amendments may be accomplished by submitting a copy of the electronic label. Refer to the following website for guidance on electronic submissions, including label:
<http://www.epa.gov/pesticides/regulating/registering/submissions/index.htm>.

If you have any questions concerning electronic label submissions, please refer to the above website for a list of contact personnel for more information.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped label with comments is enclosed for your records. Submit one (1) copy of your final printed labeling prior to release of this product for shipment. Should you have any questions concerning this letter, please contact me by telephone at (703) 308-6415 or email address at: lantz.tracy@epa.gov, or Renae Whitaker telephone at (703) 308-7003 or email address at: whitaker.renae@epa.gov during the hours of 8:00 am to 3:30 pm EST.

Sincerely,



Tracy Lantz
(Acting) Product Manager 34
Regulatory Management Branch II
Antimicrobials Division (7510P)

Enclosures: (Stamped Label)

Note: **Bold, italicized text** is information for the reader and is not part of the label. [Bracketed information is optional text.]
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EPA Reg. No. 67619-XX CARB Page 1 of 8

CARB

ACTIVE INGREDIENTS:

Octyl decyl dimethyl ammonium chloride	0.1890%
Dioctyl dimethyl ammonium chloride	0.0945%
Didecyl dimethyl ammonium chloride	0.0945%
Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chlorides	0.2520%
Ethanol	58.0600%
OTHER INGREDIENTS†	41.3100%
TOTAL:	100.0000%

† This product contains sodium nitrite

**ACCEPTED
with COMMENTS
in EPA Letter Dated:**

JUL 30 2009

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 67619-21

KEEP OUT OF REACH OF CHILDREN

WARNING: See back panel for additional
precautionary statements.

NET WT. 19 OZ.

This product must not result in the direct or indirect contamination of food products.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eye wear (safety glasses). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. If skin contact with product occurs, wash thoroughly with soap and water, especially prior to food handling and preparation. Remove or cover aquariums and cages before use.

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor for further treatment advice. Have the product container with you when calling a poison control center or doctor or going for treatment. Questions? Call 1-888-797-7225.

PHYSICAL HAZARDS: Flammable: Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130° Fahrenheit may cause bursting.

STORAGE AND DISPOSAL: Pesticide Storage and Disposal: Do not contaminate water, food, or feed by storage and disposal. Store at temperatures below 130° Fahrenheit. **Container Disposal:** Do not puncture or incinerate. Do not reuse empty container. [Please] recycle empty container or discard in trash.

-or-

This container may be recycled in aerosol recycling centers. At present, there are only a few such centers in the U.S. Before offering for recycling, empty the can by using the product according to the label. (DO NOT PUNCTURE!) If recycling is not available, wrap the container and discard in the trash.

-or-

Empty the can by using the product according to the label. (DO NOT PUNCTURE) Some recycling centers accept these steel containers. Otherwise, wrap container and discard in trash.



Questions? Comments? Call toll-free 1-888-797-7225
Mfd. for Clorox Professional Products Company, Oakland, CA 94612
© 2009 The Clorox Company
EPA Reg. No. 67619-XX
EPA Est. No. 58996-MO-1, 5813-CA-5, 71681-GA-1, IL-1, IL-2, 81368-OH-1

Made in [the] USA
Contains no phosphorus
Contains no CFCs or other ozone depleting substances
Federal Regulations Prohibit CFC Propellants in Aerosols

R0803-23

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

[Shake well.] For use on non-food contact surfaces only.

For surfaces that may come in contact with food [such as countertops and high chairs], a potable water rinse is required. Do not use on glassware, utensils or dishes.

General Use

New[] [& Improved] *to be used as a claim descriptor only for the first 6 months of product on shelf*

Claims:

- Avoid use on [polished] wood, painted surfaces, acrylic plastics
- Bleach-free
- Clear formula
- Color safe
- Commercial Solutions®
- Contains no abrasives, harsh acids
- Contains no bleach
- Convenient
- Does not contain bleach
- Easy to use
- Eliminates -or- Removes [kitchen] [bathroom] odors
- For Professional Use
- For use in homes
- For use on both white and colored hard surfaces
- Formula for bathrooms -and/or- kitchens

- Great for everyday use [in the kitchen -or- bathroom]
- Great for Kitchen[s] -and/or- Bathroom[s] [too]
- [Great] For Everyday Use [in Kitchens and Bathrooms]
- Great in the Kitchen and Bathroom
- Institutional [size]
- Is safe for -or- will not harm most hard, nonporous surfaces
- Kitchen formula
- Made for kitchen surfaces and odors
- Multi-Surface
- No mixing
- No Unpleasant Odors
- Non-abrasive formula [will not scratch surfaces]
- Non-Chlorine Formula: Will not bleach clothing or colored surfaces
- Prevents [odors]
- Professional size
- Safe for Special -or- Premium Surfaces

DEODORIZATION

To deodorize: Spray on precleaned surfaces as needed.

Claims:

- Deodorizes -and/or- disinfects -or- helps deodorize
- Deodorizer [for Institutional Use]
- Deodorizes food odors [like garlic and onion] [left behind on kitchen surfaces] [after cooking]
- Eliminates mold odor[s]
- Eliminates odors caused by bacteria [and non-fresh foods]
- Eliminates -or- reduces [kitchen] odors [in the trash can -or- recycling bin odors -or- smells] [caused by germs or bacteria]
- Eliminates pet odors caused by germs or bacteria

- Kills odor causing bacteria in the kitchen -or- bathroom
- Kills odor causing bacteria -or- germs
- Kills -or- eliminates bacteria that cause [bad] odors
- [This product] deodorizes areas that are hard to keep fresh smelling, in the [insert use sites from Tables 1-5]
- [This product] will deodorize hard, nonporous surfaces [including [insert surface[s] from Tables 1-5] [use site[s] from Tables 1-5]] [where obnoxious odors may develop]
- [This product] will deodorize surfaces in [insert site[s] from Tables 1-5]
- Removes -or- Eliminates odors

DYE & SCENT DESCRIPTORS AND CLAIMS:

- Contains no [dyes] [added colors]
- Dye-Free
- Free of Added -and/or- Dyes -and/or- Colors
- Free -or- clear of dyes

- Fresh scent formula
- Fresh Scented
- Has a fresh scent -or- fragrance -or- smell

MOLD

To control and prevent the growth of mold:

Spray precleaned surface until thoroughly wet. Surface must remain wet for 1 minute before wiping or air drying. Respray product as necessary for ongoing -or- continual control.

Claims:

- Controls [and] [prevents] mold growth
- Kills [and prevents the growth of] mold

- This product inhibits growth of mold

Organism:

1 minute contact time:

Trichophyton mentagrophytes [ATCC 9533]

ACCEPTED
with COMMENTS
in EPA Letter Dated:
JUL 30 2009

R0803-23

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 67619-21

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EPA Reg. No. 67619-XX CARB Page 3 of 8

DISINFECTION

To Disinfect: Spray 6 to 10 inches from precleaned surface for 3-4 seconds -or- until thoroughly wet. Surface must remain wet for 10 minutes.

Do not use on glasses, dishes, or utensils.

Claims:

- Antibacterial [spray] [action] [formula]
- An effective disinfectant for use in the kitchen, bathroom, bedroom, and other areas
- Antibacterial [Formula]
- Antibacterial Formula Disinfects
- Antibacterial -or- Germicidal [on hard, nonporous surfaces] [for Kitchens and Bathrooms]
- Antibacterial -or- Germicidal [Formula]
- Antimicrobial
- Bactericidal
- [Bathroom] [Restroom] [Kitchen] disinfectant
- Broad Spectrum Hospital Disinfectant
- Disinfects & [and] Deodorizes
- Disinfectant
- Disinfectant [for Institutional Use]
- Disinfecting formula
- Disinfecting spray
- Disinfect[s]
- Disinfects [Germs]
- Disinfects [washable] kitchen surfaces including killing [99.9% of] germs -and/or- bacteria -and/or- viruses -and/or- fungi
- Easily disinfect
- For [Hospital] [Commercial] [Industrial] & Institutional Use [Only]
- For Healthcare Use
- For Hospital Use
- Fungicidal -or- Antifungal
- Germicidal
- Hospital disinfectant
- ~~Hospital-grade disinfectant~~
- Kills 99.9% of Bacteria
- Kills [99.9% of] Germs
- Kills [99.9% of] [kitchen] [bathroom] bacteria
- Kills [99.9% of] see organism list
- Kills Avian Influenza**
- Kills bacteria -or- germs -or- viruses on washable kitchen -and/or- bathroom surfaces and fixtures
- Kills bacteria -or- viruses
- Kills Flu Virus[+] [Influenza A]
- Kills [household] bacteria [without bleaching]
- Kills Influenza A virus [, the virus that causes the common flu]
- Kills [Salmonella enterica] [kitchen bacteria]
- Leaves hard, nonporous surfaces sanitary -or- disinfected in 10 minutes
- Multi-purpose disinfectant [spray]

- Provides broad spectrum kill of Gram negative and Gram positive micro-organisms
- Pseudomonacidal
- Ready to use disinfectant
- Ready to use formula provides disinfecting and deodorizing
- Spray
- Staphylocidal
- ~~Disinfectant~~
- [This product] deodorizes and disinfects hard, nonporous surfaces -or- list any use sites: Tables 1-5
- [This product] is a no rinse disinfectant that disinfects, and deodorizes in one labor saving step
- This product is a Broad Spectrum disinfectant, bactericidal according to the AOAC Germicidal Spray Products test method
- This product is effective against the pathogenic fungi Trichophyton mentagrophytes (Athlete's Foot Fungus) when used as directed for disinfection with a contact time of 1 minute on hard, nonporous surfaces in bathrooms, including shower stalls, floors, and glazed bathroom tiles
- [This product] kills 99.9% of bacteria & viruses
- [This product] kills bacteria, viruses and mold
- [This product] kills germs throughout the kitchen -or- restaurant -or- establishment -or- building on hard, nonporous surfaces plus controls mold growth
- This product meets AOAC Germicidal Spray Product Test efficacy standards for hospital disinfectants
- [This product] will disinfect hard, nonporous surfaces [[insert surface(s) from Tables 1-5] [use site(s) from Tables 1-5]]
- Use [this product] to disinfect nonporous insert use sites/surfaces from Tables 1-5. [Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (120°), and allow to air dry.
- Virucidal -or- Antiviral
- [Virucidal] [Bactericidal] [Pseudomonacidal] [Fungicidal] [Deodorizer]

**Kills Avian Influenza virus on precleaned environmental surfaces

†Influenza A

Germicidal against the following [organisms]: -or- [This product] kills the following [organisms]: -or- Disinfects against the following [organisms] -and/or- Fungicidal -and/or- Virucidal:

Organisms:

See organism list

R0803-23

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JUL 30 2009

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EPA Reg. No. 67619-XX CARB Page 4 of 8

DISINFECTION continued**Organisms:**

[This product] kills germs: -or- Kills -or- Disinfects against the following bacteria, viruses, mold:

ORGANISMS:**Bacteria:****3 minute contact time:**

Acinetobacter baumannii	[ATCC 15308]
Community-associated Methicillin resistant Staphylococcus aureus, (CA-MRSA Genotype 300)	[Genotype 300]
Escherichia coli O157:H7	[ATCC 35150]
ESBL (Extended Spectrum Beta Lactamase) producing Escherichia coli (ESBL producing E. coli)	[ATCC BAA-196]
Methicillin resistant Staphylococcus aureus, (MRSA 100)	[Genotype USA 100 NARSA NRS382]
Methicillin resistant Staphylococcus aureus, (MRSA 200)	[Genotype USA 200 NARSA NRS383]
Methicillin-resistant Staphylococcus aureus	[ATCC 33591]
Pseudomonas aeruginosa	[ATCC 15442]
Salmonella enterica	[ATCC 10708]
Staphylococcus aureus	[ATCC 6538]
Vancomycin-resistant Enterococcus faecalis (VRE)	[ATCC 51299]

Fungus:**1 minute contact time:**

Trichophyton mentagrophytes	[ATCC 9533]
-----------------------------	-------------

Viruses (non-enveloped):**30 second contact time:**

Rhinovirus 39	[ATCC VR-340]
---------------	---------------

10 minute contact time:

Poliovirus [type 1] [Polio]	[ATCC VR-1562]
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Viruses (enveloped):**30 second contact time:**

Avian Influenza	[H5N1 NIBRG-14]
Bovine viral diarrhea virus (human Hepatitis C virus surrogate)	
Human Influenza A virus	[A/PR/8/34 (H1N1)]

Environmental Text:

[Important Facts about this product:]

- ◆ This can is made from an average of 25% recycled steel (10% post-consumer)

- ◆ Encourage your local authorities to establish a program to recycle this can
- ◆ Recyclable

R0803-23

ACCEPTED
with COMMENTS
in EPA Letter Dated:
JUL 30 2009

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
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registered under EPA Reg. No. 67619-21

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TABLE 1 Medical:**USE SITES**

Ambulances -or- [Emergency Medical] Transport Vehicles
Anesthesia Rooms -or- Areas
[Assisted Living -or- Full Care] Nursing Homes
CAT Lab[oratories]
Central Service Areas
Central Supply Rooms -or- Areas
Critical Care Units -or- CCUs
Doctor's Offices
Donation Centers [blood] [plasma] [semen] [milk] [apheresis]
Emergency Rooms -or- ERs
Eye Surgical Centers
Health Care Settings -or- Facilities
Home Health Care [Settings]
Hospices

Hospitals
[Hospital] Kitchens
Intensive Care Units -or- ICU[s] [areas]
Laboratories
Laundry Rooms
Long Term Care Facilities
[Medical] Clinics [Facilities]
Medical Facilities
Medical -or- Physician's -or- Doctor's Offices
Newborn -or- Neonatal [Nurseries] [Intensive Care] Units [NICU]
Nursing Homes
Nursing -or- Nurses' Stations
Operating Rooms
Ophthalmic Offices
Orthopedics
Outpatient [Surgical Centers (OPSC)] [Clinics] [Facilities]

Patient Areas
Patient Restrooms
Patient Rooms
[Pediatric] Examination Rooms -or- Areas
Pediatric Intensive Care Units [PICU]
Pharmacies
Physicians' Offices
Physical Therapy Rooms -or- Areas
Psychiatric Facilities
Public Areas
Radiology -or- X-Ray Rooms -or- Areas
Recovery Rooms
Rehabilitation Centers
Surgery Rooms -or- Operating Rooms -or- ORs
Waiting Rooms -or- Waiting Areas

SURFACES

anesthesia machines
apheresis machines
autoclaves
bathroom doorknob
bedpans
bedpan cleaner
bedrails
[bedside] commodes
bedside tables
blood pressure cuffs
blood pressure (BP) monitors
cabinets
call boxes
CAT -or- Computerized Axial Tomography equipment
carts
chairs
charging stations
computer peripherals
computer screens
computer tables
cords
counters
[crash] [emergency] carts
diagnostic equipment
docking stations

edges of privacy curtains
[exam -or- examination] tables
external surfaces of [medical] equipment -or- [medical] equipment surfaces
[external] [surfaces of] ultrasound transducers [-and/or- probes]
gurneys
hard, nonporous hospital -or- medical surfaces
[hospital -or- patient] bed(s) [springs] [railings] -or- linings -or- frames
IV [stands] [pumps] [poles]
keyboards
large surfaces
loupes
mammography equipment
medication carts
mobile workstations
mouse pads
MRI -or- Magnetic Resonance Imaging equipment
operating room tables and lights
operating room light switches
overbed tables
paddles
patient chairs
plastic -or- vinyl mattress covers
patient monitoring equipment

patient support and delivery equipment
phlebotomy trays
physical therapy (pt) equipment surfaces
pulse oximeters
PVC tubing
reception counters -or- desks -or- areas
remote controls
respiratory therapy equipment
scales
sequential compression devices
side rails
slit lamps
small surfaces
spine backboards
stethoscopes
stools
stretchers
surfaces in and around toilets in patient rooms
toilet handholds
traction devices
walls [around toilet] [in patient rooms]
wash basins
wheelchairs
x-ray equipment

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

PERSONAL PROTECTIVE SAFETY EQUIPMENT

face shields
goggles
hard hats

protective headgear
silicone rubber -or- PVC hearing protectors

spectacles
vinyl covered earmuffs

R0803-23

ACCEPTED
with COMMENTS
in EPA Letter Dated:
JUL 30 2009

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. **222**

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EPA Reg. No. 67619-XX CARB Page 6 of 8

Use on non-critical surfaces in:**TABLE 2 Dental:****USE SITES**

Dental Offices
Examination Rooms
Dental Operatories
Dental -or- Dentists' Offices

SURFACES

amalgamators -and/or- dental curing lights
dental countertops
dental operatory surfaces
dentists' -or- dental chairs

endodontic equipment such as apex locators
hard, nonporous [environmental] dental surfaces
light lens covers
pulp testers and motors
reception counters -or- desks -or- areas

TABLE 3 Veterinary and Farm:**USE SITES**

Animal Life Science Laboratories
Animal [Pet] Housing [Kennels] [Facilities]
Animal Holding Areas
[Animal -or- Pet] Grooming Facilities
Animal Transportation Vehicles
Breeding Establishments
Equine Farms

Farms
Kennels
Livestock -and/or- Swine -and/or- Poultry Facilities
Pet [Areas] [Quarters]
Pet Shops -or- Stores
Small Animal Facilities
Tack Shops

Veterinary Clinics -or- Facilities
Veterinary -or- Animal Hospitals
Veterinary [Offices] [Waiting Rooms]
Veterinary [Examination Rooms]
Veterinary [X-ray Rooms]
Veterinary [Operating Rooms]
Zoos

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

SURFACES

animal equipment
around troughs
automatic feeder exteriors
empty cages
external surfaces of [veterinary] equipment

feed rack exteriors
fountains
hard, nonporous [environmental] veterinary surfaces
pens

reception counters -or- desks -or- areas
stalls
veterinary care surfaces
watering appliance exteriors

TABLE 4 Food Service:**USE SITES**

Banquet Halls
Bars
Cafeterias
Catering Facilities
Commercial -or- Institutional Kitchens

Delis [Delicatessens]
Fast Food Chains -or- Restaurants
Food Preparation and Processing Areas
Food [Service -or- Processing] Establishments
Food Serving Areas

Other Food Service Establishments
Restaurants
School Kitchens

SURFACES

any washable (food and non-food contact) surface
where disinfection is required
appliances
dish racks
drain boards
food cases
food trays
freezers

hoods
microwave[s] [exteriors]
oven[s] [exteriors]
plastic -or- metal outdoor furniture
(excluding wood frames and upholstery)
refrigerator[s] [exteriors]
salad bar sneeze guards
stoves -or- stovetops

R0803-23

**ACCEPTED
with COMMENTS
in EPA Letter Dated:
JUL 30 2009**

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 67619-XX

Note: **Bold, italicized text is information for the reader and is not part of the label.** [Bracketed information is optional text.]
Text separated by a diamond bullet (◆) denotes -and/or- options. Underlined text is new. Strike-through (~~text~~) means removed.

TABLE 5 Miscellaneous/General:

USE SITES

Airplanes [Airports]
Ambulances
Athletic [Recreational] Facilities
Automobiles
Barber Shops
Basements
Bathrooms
Bathroom -or- Locker Room
Facilities
Beauty Salons
Bedrooms
Blood Banks
Boats
Bowling Alleys
Buses
Butcher Shops
Cafeterias
Campers
Cars
Churches
Colleges
Convenience Stores
Correctional Facilities
[Damp] Storage Areas
Day Care Centers
Dens
Dorms
Dormitories
Elevators
Emergency Vehicles
Factories
Fast Food Restaurants
[Food Processing] Plants
Funeral Homes
Garages
[Garbage] [Waste] Storage Areas

Gas Stations
Grocery Stores
Gymnasiums -or- Gyms
Health Club[s] [Facilities]
Homes
Home Centers
Hotels
Industrial Facilities
Institutional Kitchens
[Institutional] Laundromats
Institutions
Kennels
Kitchen[s] [surfaces]
Laboratories
Laundromats
Laundry Rooms
Lavatories
Locker Rooms
Lodging Establishment
Lounges
Malls
[Manufacturing] Plants
Manufacturing Plants -or- Facilities
Markets
Mass Merchandisers, Discount Retailers
-and/or- General Merchandise Stores
Military Installations
Mobile Homes
Mortuaries
Motels
Motor Homes
Mudrooms
Nurseries
Office[s] [Buildings]
Pet Areas
Pharmacies

Play Areas -or- Rooms
Playgrounds
[Police -and/or- Fire] Vehicles
Produce Areas
Public Areas
Public Facilities
Public Restrooms
Public Telephone[s] [Booths]
Recreational Centers -or- Facilities
Rental Cars
Rest Stops
Restaurants
Restrooms -or- Restroom Areas
Retail businesses
School Buses
Schools
Shelters
Ships
Shopping Centers
Shops
Shower Rooms
Sports Arenas
Storage Rooms -or- Areas
Subways
Supermarkets
Toolsheds
Transportation Terminals
Trains
Trolleys
Universities
Vacation Homes
Warehouse Clubs

A potable water rinse is required for food contact surfaces.
Do not use on glassware, utensils, or dishes.

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TABLE 5 Miscellaneous/General: continued

SURFACES

appliance exterior[s] [surfaces]
appliance -or- cabinet knobs
bassinets
[bathroom] fixtures
[bathroom] [kitchen] faucet[s]
[handles]
[bath]tubs
bed frames
behind and under counters
behind and under sinks
boats
booster chairs
burner trays
cabinets
car interiors
carts
ceilings
chairs
[children's] furniture
closets
[clothes] [diaper] hampers
[computer] keyboards
cooler exteriors
counters -or- countertops
cupboards
cribs
crystal (non-food contact areas)
desk[s] [tops]
[diaper -or- infant] changing [tables]
-or- areas [stations]
diaper pails
dictating equipment [surfaces]
[dining] [fast food] [kitchen] [picnic]
[play] [restaurant] [tray] tables
dining room surfaces -and/or- tables
-and/or- fast food restaurant tables
door[s] [handle[s]] [frame[s]]
doorknobs
drain boards
drawer pulls
dressing carts

elevator buttons
enamel
exercise machines
exhaust fans
exterior -or- external toilet surfaces
exterior -or- external urinal surfaces
exterior surfaces of
urinals -and/or- toilets
faucets
fax machine[s] [handles]
fiberglass
[filing] [medicine] cabinets
finished hardwood
finished -or- painted woodwork
finished windowsills
fixtures
floors [around toilets]
furniture
freezer exteriors
garage surfaces
garbage -or- trash cans
glazed ceramic [restroom surfaces]
glazed [ceramic] tile[s]
glazed porcelain [tiling -or- tile]
[grocery [store] -or- supermarket]
carts
[grocery [store] -or- supermarket]
cart handles
[grocery [store] -or- supermarket]
cart child seats
gym[nastic] equipment
hampers
[hand]railings -or- rails
[hard] plastic -or- vinyl
headsets
high chairs (non-food contact
areas)
[kids'] play [structures]
[equipment] [furniture] [tables]
[kitchen] appliance exteriors
light fixtures -or- switches -or- panels

linoleum
lockers
[medicine] cabinets
metal
metal blinds
metal work benches
microwave exterior
office machinery
office -or- bedroom -or-
bedside furniture
other telecommunication
equipment surfaces
outdoor grill exteriors
outdoor -or- patio furniture
oven doors
pet areas -or- surfaces
phones
plastic laundry hampers -or- baskets
plastic patio furniture
-or- lawn chairs
plastic shower curtains
plastic surfaces associated with:
floors, walls, fixtures, toilets,
urinals, sinks, shower rooms
and locker rooms
playground equipment
playpens
portable toilet exteriors
[public -or- pay] telephones
-or- phone booths
range hoods
recycling bins
refrigerator door handles
refrigerator exterior
RVs
shelves [and drawers]
shower[s] [area] [curtains]
[doors] [stalls] [walls]
signs
sink[s] [basins]
seats

sports equipment
stainless steel
stall doors
staplers
stovetops -or- stoves
synthetic marble
tables [tabletops]
[tiled] walls
tires
[toilet [flush]] [telephone] [cabinet]
[dishwasher] [door] handles
toilet -and/or- urinal exterior[s]
[surfaces] -or- exterior toilet
surfaces toilet[s] [handle] [rims]
[seats] [tops]
tools
towel dispensers
toy boxes -or- storage bins
trailers
[training] toilets
trash cans -or- compactors
tray tables
tubs
urinals
vanity tops -or- vanities
vehicles
vending machine surfaces
[vinyl] linoleum -or- wallpaper
walkers
walls
[washable] floors [including
linoleum, no-wax, vinyl, and
glazed ceramic tile]
washable kitchen surfaces
[washable] walls
washers/dryers -or-
washing machine exterior[s]
wastebaskets
whirlpool tubs
window [blinds] [shades]
windshields
wrestling mats

SURFACE MATERIALS

[baked] enamel
chrome
[common] hard, nonporous
[household -or- environmental]
surfaces
fiberglass
Formica
glazed ceramic [tile]

glazed porcelain
laminated surfaces
Marlite
painted surfaces
plastic [laminated]
plexiglass
porcelain enamel
stainless steel

synthetic marble
tile
vinyl [tile]
similar hard, nonporous
surfaces except for those
excluded by the label

Not Recommended For Use On
-or- Avoid Contact With:
acrylic plastics
natural marble
painted surfaces
paper surfaces
[polished] wood
rubber
unfinished wood

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conjunction with the term "microbicide" are related to industrial uses and are not related to products represented or defined as disinfectants.

(17) "Algicide" means any substance, or mixture of substances, which kills or effectively reduces the number of living algae in water.

(18) "Antifoulant" means any agent that is used to prevent the fouling of underwater structures.

(19) "Microbistat" means any substance or mixture of substances which effectively controls, or temporarily prevents, the growth of microorganisms (see bacteriostat).

(e) Misleading Claims. Under FIFRA sec. 2(q), labels may not bear misleading claims pertaining to the uses or efficacy of the product. **Neither pesticides nor devices can bear false or misleading statements, whether distributed or sold domestically or for export.**

(1) The following are examples of misleading claims that are based on **40 CFR 156.10(a)(5) - False or Misleading Statements**.

(i) **False or Misleading Statements Concerning the Composition of the Product**. Product labeling claims considered to be false or misleading with respect to the product's chemical composition, individual ingredients, level of activity, non-pesticidal effects, etc., include, but are not limited to "extra strength ingredients", "hospital strength", "hospital grade", "industrial strength formula", "will not harm plastic surfaces", "cleans/disinfects twice as fast as other major brands", etc.

(ii) **Any Statement Directly or Indirectly Implying that the Pesticide or Device is Recommended or Endorsed by any Agency of the Federal Government**. Language and/or graphics appearing in antimicrobial product labeling that state or imply that the EPA, Food and Drug Administration (FDA), Centers for Disease Control (CDC), United States Department of Agriculture (USDA) or any other Federal governmental agency has tested, recommended, approved or endorsed the product is considered misleading. However, properly stated references to Federal agency authorizations, tolerances, conditions of use, etc., that are currently permitted in labeling in conjunction with product registration, are acceptable.

(iii) **A True Statement Used in Such a Way as to Give a False or Misleading Impression to the Purchaser**. The use of claims accepted in conjunction with product registration in such a way as to exaggerate, extend, or imply product characteristics or attributes beyond those accepted by EPA



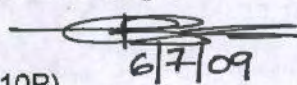
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF
PREVENTION,
PESTICIDES
AND TOXIC
SUBSTANCES

June 1, 2009

MEMORANDUM

Subject: Efficacy Review for EPA Reg. No. 67619-ER, CARB
DP Barcode: 363950

From: Tajah L. Blackburn, Ph.D., Microbiologist
Efficacy Evaluation Team
Product Science Branch
Antimicrobials Division (7510P)  6/7/09

Thru: Michele Wingfield, Chief
Product Science Branch
Antimicrobials Division (7510P)

To: Tracy Lantz Acting PM 34/ Renae Whitaker
Regulatory Management Branch II
Antimicrobials Division (7510P)

Applicant: Clorox Professional Products Company
c/o PS&RC
PO Box 493
Pleasanton, CA 94566-0803

Formulation from the Label:

<u>Active Ingredient(s)</u>	<u>% by wt.</u>
Octyl decyl dimethyl ammonium chloride.....	0.1890%
Dioctyl dimethyl ammonium chloride.....	0.0945%
Didecyl dimethyl ammonium chloride.....	0.0945%
Alkyl (50% C ₁₄ , 40% C ₁₂ , 10% C ₁₆) dimethyl benzyl ammonium chloride.....	0.2520%
Ethanol.....	58.0600%
<u>Other Ingredients</u>	<u>41.3100 %</u>
Total.....	100.0000 %

I BACKGROUND

The product, Carb (EPA File Symbol 67619-ER), is a new product. The applicant requested to register the ready-to-use, aerosol product for use as a disinfectant (bactericide, fungicide, virucide), mildewstat, and deodorizer on hard, non-porous surfaces in household, commercial, institutional, industrial, food service, animal care, and hospital or medical environments. Studies were conducted at MicroBioTest, Inc., located at 105 Carpenter Drive in Sterling, VA 20164.

This data package contained a letter from the applicant to EPA (dated March 5, 2009), EPA Form 8570-1 (Application for Pesticide), EPA Form 8570-4 (Confidential Statement of Formula; for the basic formulation and one alternative formulation), EPA Form 8570-27 (Formulator's Exemption Statement), EPA Form 8570-34 (Certification with Respect to Citation of Data), EPA Form 8570-35 (Data Matrix; for the product), EPA Form 8570-35 (Data Matrix; for the active ingredient, ethanol), seventeen studies (MRID 476968-02 through 476968-18), Statements of No Data Confidentiality Claims for all seventeen studies, and the proposed label.

Note: EPA Form 8570-4 (Confidential Statement of Formula) contains Confidential Business Information. Data or information claimed by the applicant to be FIFRA confidential has not been included in this report.

Note: The applicant's letter to EPA (dated March 5, 2009) states that the efficacy studies were performed using the product, Formula F2008.0034, which uses a lower purity source of ethanol (96% vs. 99.6%).

II USE DIRECTIONS

The product is designed for disinfecting hard, non-porous surfaces, including: animal equipment, appliances, bathroom fixtures, bathtubs, bed frames, cabinets, cages, carts, ceilings, counters, diaper changing tables, diaper pails, dictating equipment, dish racks, drain boards, elevator buttons, examination tables, exercise machines, exhaust fans, exterior toilet and urinal surfaces, faucets, floors, food cases, food trays, fountains, furniture, garbage cans, grocery carts, gymnastic equipment, hampers, handles and knobs, headsets, hoods, keyboards, light switches, medical equipment and machines, office machinery, outdoor furniture (plastic or metal), pens, personal protective safety equipment, playground equipment, railings, recycling bins, remote controls, salad bar sneeze guards, scales, shelves, shower curtains, shower stalls, signs, sinks, sports equipment, staplers, stethoscopes, storage bins, telephones, tires, tools, toy boxes, towel dispensers, vanity tops, vehicles, vending machines, veterinary equipment, walls, wheelchairs, whirlpool tubs, windshields, and windowsills. The proposed label indicates that the product may be used on hard, non-porous surfaces including: baked enamel, fiberglass, finished hardwood, Formica, glazed ceramic, glazed porcelain, glazed tile, laminate, linoleum, Marlite, metal (e.g., chrome, stainless steel), painted woodwork, synthetic marble, plastic, Plexiglas, and vinyl. Directions on the proposed label provide the following information regarding use of the product:

As a disinfectant: Spray 6 to 10 inches from pre-cleaned surface for 3-4 seconds or until thoroughly wet. Surface must remain wet for 10 minutes.

To control and prevent the growth of mold: Spray pre-cleaned surface until thoroughly wet. Surface must remain wet for 1 minute before wiping or air drying.

III AGENCY STANDARDS FOR PROPOSED CLAIMS

Disinfectants for Use on Hard Surfaces in Hospital or Medical Environments

The effectiveness of disinfectants for use on hard surfaces in hospital or medical environments must be substantiated by data derived using the AOAC Use-Dilution Method (for water soluble powders and liquid products) or the AOAC Germicidal Spray Products as Disinfectants Method (for spray products). Sixty carriers must be tested with each of 3 product samples, representing 3 different product lots, one of which is at least 60 days old, against *Salmonella enterica* (ATCC 10708; formerly *Salmonella choleraesuis*), *Staphylococcus aureus* (ATCC 6538), and *Pseudomonas aeruginosa* (ATCC 15442). To support products labeled as "disinfectants," killing on 59 out of 60 carriers is required to provide effectiveness at the 95% confidence level.

Disinfectants for Use on Hard Surfaces in Hospital or Medical Environments (Additional Bacteria)

Effectiveness of disinfectants against specific bacteria other than those named in the AOAC Use-Dilution Method, AOAC Germicidal Spray Products as Disinfectants Method, AOAC Fungicidal Test, and AOAC Tuberculocidal Activity Method, must be determined by either the AOAC Use-Dilution Method or the AOAC Germicidal Spray Products as Disinfectants Method. Ten carriers must be tested against each specific microorganism with each of 2 product samples, representing 2 different product lots. To support products labeled as "disinfectants" for specific bacteria (other than those bacteria named in the above test methods), killing of the specific microorganism on all carriers is required.

Disinfectants for Use as Fungicides (Against Pathogenic Fungi, Using the AOAC Germicidal Spray Products as Disinfectants Method)

The effectiveness of liquid disinfectants against specific pathogenic fungi must be supported by efficacy data using an appropriate test. The AOAC Germicidal Spray Products as Disinfectants Method contains procedures for testing fungicidal activity. Ten carriers on each of 2 product samples representing 2 different product lots must be employed in the test. Killing of the specific pathogenic fungi on all carriers is required.

Note: As an interim policy, EPA is accepting studies with dried carrier counts that are at least 10^4 for *Trichophyton mentagrophytes*, *Aspergillus niger*, and *Candida albicans*. EPA recognizes laboratories are experiencing problems in maintaining dried carrier counts at the 10^6 level. This interim policy will be in effect until EPA determines that the laboratories are able to achieve consistent carrier counts at the 10^6 level.

Virucides

The effectiveness of virucides against specific viruses must be supported by efficacy data that simulates, to the extent possible in the laboratory, the conditions under which the product is intended to be used. Carrier methods that are modifications of

either the AOAC Use-Dilution Method (for liquid disinfectants) or the AOAC Germicidal Spray Products as Disinfectants Method (for spray disinfectants) must be used. To simulate in-use conditions, the specific virus to be treated must be inoculated onto hard surfaces, allowed to dry, and then treated with the product according to the directions for use on the product label. One surface for each of 2 different product lots of disinfectant must be tested against a recoverable virus titer of at least 10^4 from the test surface for a specified exposure period at room temperature. Then, the virus must be assayed by an appropriate virological technique, using a minimum of four determinations per each dilution assayed. Separate studies are required for each virus. The calculated viral titers must be reported with the test results. For the data to be considered acceptable, results must demonstrate complete inactivation of the virus at all dilutions. When cytotoxicity is evident, at least a 3-log reduction in titer must be demonstrated beyond the cytotoxic level.

Virucides – Novel Virus Protocol Standards

To ensure that a virus protocol has been adequately validated, data should be provided from at least 2 independent laboratories for each product tested (i.e., 2 product lots per laboratory).

IV COMMENTS ON THE SUBMITTED EFFICACY STUDIES

1. MRID 476968-02 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Trichophyton mentagrophytes* (ATCC 9533), for Carb, by Kathryn D. Dormstetter. Study conducted at MicroBioTest, Inc. Study completion date – January 8, 2009. Laboratory Project Identification Number 320-474.

This study was conducted against *Trichophyton mentagrophytes* (ATCC 9533). Three lots (Lot Nos. 2008-eg-07, 2008-eg-08, and 2008-eg-09) of the product, Carb, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995. The product was received ready-to-use. A culture of the challenge microorganism was prepared in accordance with the published AOAC method, with the following exception: the culture was incubated for 3-5 days (which differs from the AOAC method specification of 10-15 days at 25-30°C (for *Trichophyton mentagrophytes*)). Heat-inactivated horse serum was added to the culture to achieve a 5% organic soil load. Ten (10) glass slide carriers were inoculated with 0.01-0.03 mL of a 3-5 day old suspension of the test organism (which differs from the AOAC method specification of 0.01 mL). Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 20-40 minutes at 37±2°C (which differs from the AOAC method specification of 30-40 minutes at 37°C). For each lot of product, separate carriers were sprayed for 3 seconds with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 1 minute at 19-20°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes of Neopeptone Glucose Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for up to 10 days at 23-30°C (which differs from the AOAC method specification of 7 days at 25-30°C (for *Trichophyton mentagrophytes*)). Following incubation, the subcultures were examined

for the presence or absence of visible growth. Controls included those for confirmation of the challenge microorganism, inoculum counts, carrier counts, sterility, viability, fungistasis, and neutralizer effectiveness.

Note: Protocol deviations/amendments reported in the study were reviewed.

Note: Testing deviated from AOAC method specifications with regard to culture preparation, carrier inoculation, carrier drying, and subculture incubation. These deviations appear to be acceptable.

2. MRID 476968-03 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Acinetobacter baumannii* (ATCC 15308), for Carb, by Felicia L. Sellers. Study conducted at MicroBioTest, Inc. Study completion date – January 12, 2009. Laboratory Project Identification Number 320-475.

This study was conducted against *Acinetobacter baumannii* (ATCC 15308). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995. The product was received ready-to-use. A culture of the challenge microorganism was prepared in accordance with the published AOAC method, with the following exceptions: (1) daily transfers of the culture were incubated at 37±2°C (which differs from the AOAC method specification of 37°C); and (2) the culture was incubated for 48-54 hours (which differs from the AOAC method specification of 48 hours for all bacterial cultures except *Pseudomonas aeruginosa*). Heat-inactivated horse serum was added to the culture to achieve a 5% organic soil load. Ten (10) glass slide carriers were inoculated with 0.01-0.03 mL of a 48-54 hour old suspension of the test organism (which differs from the AOAC method specification of 0.01 mL). Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 20-40 minutes at 37±2°C (which differs from the AOAC method specification of 30-40 minutes at 37°C). For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes of Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C (which differs from the AOAC method specification of 48 hours at 37°C). Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for confirmation of the challenge microorganism, carrier counts, sterility, viability, bacteriostasis, and neutralizer effectiveness.

Note: Protocol deviations/amendments reported in the study were reviewed.

Note: Testing deviated from AOAC method specifications with regard to culture preparation, carrier inoculation, carrier drying, and subculture incubation. These deviations appear to be acceptable.

3. MRID 476968-04 "AOAC Germicidal Spray Test Supplemental," Test Organism: Hospital-Associated Methicillin-Resistant *Staphylococcus aureus* Genotype USA 100 (HA-MRSA 100), NRS382, Clinical Isolate 08009, for Carb, by Felicia L. Sellers. Study conducted at MicroBioTest, Inc. Study completion date – January 22, 2009. Laboratory Project Identification Number 320-476.

This study was conducted against Hospital-Associated Methicillin-Resistant *Staphylococcus aureus* Genotype USA 100 (NRS382; Clinical Isolate 08009; obtained from NARSA). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995. The product was received ready-to-use. A culture of the challenge microorganism was prepared in accordance with the published AOAC method, with the following exceptions: (1) daily transfers of the culture were incubated at 37±2°C (which differs from the AOAC method specification of 37°C); and (2) the culture was incubated for 48-54 hours (which differs from the AOAC method specification of 48 hours for all bacterial cultures except *Pseudomonas aeruginosa*). Heat-inactivated horse serum was added to the culture to achieve a 5% organic soil load. Ten (10) glass slide carriers were inoculated with 0.01-0.03 mL of a 48-54 hour old suspension of the test organism (which differs from the AOAC method specification of 0.01 mL). Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 20-40 minutes at 37±2°C (which differs from the AOAC method specification of 30-40 minutes at 37°C). For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes of Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C (which differs from the AOAC method specification of 48 hours at 37°C). Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for confirmation of the challenge microorganism, carrier counts, sterility, viability, bacteriostasis, neutralizer effectiveness, and antibiotic resistance.

Note: Antibiotic resistance of Hospital-Associated Methicillin-Resistant *Staphylococcus aureus* Genotype USA 100 was verified on a representative culture. An individual Mueller Hinton Agar plate was streaked with the prepared culture in a crosshatch pattern. After crosshatching, an antibiotic disk was added to the center of the plate. The plate was incubated and, following incubation, the zone of inhibition was measured and documented. The measured zone of inhibition (i.e., 0 mm) confirmed antibiotic resistance of Hospital-Associated Methicillin-Resistant *Staphylococcus aureus* Genotype USA 100 to oxacillin. See pages 9 and 15 of the laboratory report.

Note: Protocol deviations/amendments reported in the study were reviewed.

Note: Testing deviated from AOAC method specifications with regard to culture preparation, carrier inoculation, carrier drying, and subculture incubation. These deviations appear to be acceptable.

4. MRID 476968-05 "AOAC Germicidal Spray Test Supplemental," Test Organism: Hospital-Associated Methicillin-Resistant *Staphylococcus aureus* Genotype USA 200 (HA-MRSA 200), NRS383, Clinical Isolate 08010, for Carb, by Felicia L. Sellers. Study conducted at MicroBioTest, Inc. Study completion date – January 16, 2009. Laboratory Project Identification Number 320-477.

This study was conducted against Hospital-Associated Methicillin-Resistant *Staphylococcus aureus* Genotype USA 200 (NRS383; Clinical Isolate 08010; obtained from NARSA). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995. The product was received ready-to-use. A culture of the challenge microorganism was prepared in accordance with the published AOAC method, with the following exceptions: (1) daily transfers of the culture were incubated at $37\pm 2^{\circ}\text{C}$ (which differs from the AOAC method specification of 37°C); and (2) the culture was incubated for 48-54 hours (which differs from the AOAC method specification of 48 hours for all bacterial cultures except *Pseudomonas aeruginosa*). Heat-inactivated horse serum was added to the culture to achieve a 5% organic soil load. Ten (10) glass slide carriers were inoculated with 0.01-0.03 mL of a 48-54 hour old suspension of the test organism (which differs from the AOAC method specification of 0.01 mL). Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 20-40 minutes at $37\pm 2^{\circ}\text{C}$ (which differs from the AOAC method specification of 30-40 minutes at 37°C). For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C . Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes of Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48 ± 2 hours at $37\pm 2^{\circ}\text{C}$ (which differs from the AOAC method specification of 48 hours at 37°C). Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for confirmation of the challenge microorganism, carrier counts, sterility, viability, bacteriostasis, neutralizer effectiveness, and antibiotic resistance.

Note: Antibiotic resistance of Hospital-Associated Methicillin-Resistant *Staphylococcus aureus* Genotype USA 200 was verified on a representative culture. An individual Mueller Hinton Agar plate was streaked with the prepared culture in a crosshatch pattern. After crosshatching, an antibiotic disk was added to the center of the plate. The plate was incubated and, following incubation, the zone of inhibition was measured and documented. The measured zone of inhibition (i.e., 1 mm) confirmed antibiotic resistance of Hospital-Associated Methicillin-Resistant *Staphylococcus aureus* Genotype USA 200 to oxacillin. See pages 9 and 15 of the laboratory report.

Note: Protocol deviations/amendments reported in the study were reviewed.

Note: Testing deviated from AOAC method specifications with regard to culture preparation, carrier inoculation, carrier drying, and subculture incubation. These deviations appear to be acceptable.

5. MRID 476968-06 "AOAC Germicidal Spray Test Supplemental," Test Organism: Community-Associated Methicillin-Resistant *Staphylococcus aureus* Genotype 300 (CA-MRSA 300), Clinical Isolate 08001, for Carb, by Felicia L. Sellers. Study conducted at MicroBioTest, Inc. Study completion date – January 22, 2009. Laboratory Project Identification Number 320-478.

This study was conducted against Community-Associated Methicillin-Resistant *Staphylococcus aureus* Genotype 300 (Clinical Isolate 08001; obtained from the University of Louisville Hospital, Louisville, KY). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995. The product was received ready-to-use. A culture of the challenge microorganism was prepared in accordance with the published AOAC method, with the following exceptions: (1) daily transfers of the culture were incubated at $37\pm 2^{\circ}\text{C}$ (which differs from the AOAC method specification of 37°C); and (2) the culture was incubated for 48-54 hours (which differs from the AOAC method specification of 48 hours for all bacterial cultures except *Pseudomonas aeruginosa*). Heat-inactivated horse serum was added to the culture to achieve a 5% organic soil load. Ten (10) glass slide carriers were inoculated with 0.01-0.03 mL of a 48-54 hour old suspension of the test organism (which differs from the AOAC method specification of 0.01 mL). Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 20-40 minutes at $37\pm 2^{\circ}\text{C}$ (which differs from the AOAC method specification of 30-40 minutes at 37°C). For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C . Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes of Letheen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48 ± 2 hours at $37\pm 2^{\circ}\text{C}$ (which differs from the AOAC method specification of 48 hours at 37°C). Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for confirmation of the challenge microorganism, carrier counts, sterility, viability, bacteriostasis, neutralizer effectiveness, and antibiotic resistance.

Note: Antibiotic resistance for Community-Associated Methicillin-Resistant *Staphylococcus aureus* Genotype 300 was verified on a representative culture. An individual Mueller Hinton Agar plate was streaked with the prepared culture in a crosshatch pattern. After crosshatching, an antibiotic disk was added to the center of the plate. The plate was incubated and, following incubation, the zone of inhibition was measured and documented. The measured zone of inhibition (i.e., 0 mm) confirmed antibiotic resistance of Community-Associated Methicillin-Resistant *Staphylococcus aureus* Genotype 300 to oxacillin. See pages 9 and 15 of the laboratory report.

Note: Protocol deviations/amendments reported in the study were reviewed.

Note: Testing deviated from AOAC method specifications with regard to culture preparation, carrier inoculation, carrier drying, and subculture incubation. These deviations appear to be acceptable.

6. MRID 476968-07 "AOAC Germicidal Spray Test Supplemental," Test Organism: *Escherichia coli* O157:H7 (ATCC 35150), for Carb, by Felicia L. Sellers. Study conducted at MicroBioTest, Inc. Study completion date – January 12, 2009. Laboratory Project Identification Number 320-480.

This study was conducted against *Escherichia coli* O157:H7 (ATCC 35150). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995. The product was received ready-to-use. A culture of the challenge microorganism was prepared in accordance with the published AOAC method, with the following exceptions: (1) daily transfers of the culture were incubated at 37±2°C (which differs from the AOAC method specification of 37°C); and (2) the culture was incubated for 48-54 hours (which differs from the AOAC method specification of 48 hours for all bacterial cultures except *Pseudomonas aeruginosa*). Heat-inactivated horse serum was added to the culture to achieve a 5% organic soil load. Ten (10) glass slide carriers were inoculated with 0.01-0.03 mL of a 48-54 hour old suspension of the test organism (which differs from the AOAC method specification of 0.01 mL). Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 20-40 minutes at 37±2°C (which differs from the AOAC method specification of 30-40 minutes at 37°C). For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes of Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C (which differs from the AOAC method specification of 48 hours at 37°C). Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for confirmation of the challenge microorganism, carrier counts, sterility, viability, bacteriostasis, and neutralizer effectiveness.

Note: Protocol deviations/amendments reported in the study were reviewed.

Note: Testing deviated from AOAC method specifications with regard to culture preparation, carrier inoculation, carrier drying, and subculture incubation. These deviations appear to be acceptable.

7. MRID 476968-08 "AOAC Germicidal Spray Test Supplemental," Test Organism: Extended spectrum β -lactamase *Escherichia coli* (ESBL) (ATCC BAA-196), for Carb, by Felicia L. Sellers. Study conducted at MicroBioTest, Inc. Study completion date – January 12, 2009. Laboratory Project Identification Number 320-481.

This study was conducted against Extended spectrum β -lactamase *Escherichia coli* (ATCC BAA-196). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995. The product was received ready-to-use. A culture of the challenge microorganism was prepared in accordance with the published AOAC method, with the following exceptions: (1) daily transfers of the culture were incubated at $37\pm 2^\circ\text{C}$ (which differs from the AOAC method specification of 37°C); and (2) the culture was incubated for 48-54 hours (which differs from the AOAC method specification of 48 hours for all bacterial cultures except *Pseudomonas aeruginosa*). Heat-inactivated horse serum was added to the culture to achieve a 5% organic soil load. Ten (10) glass slide carriers were inoculated with 0.01-0.03 mL of a 48-54 hour old suspension of the test organism (which differs from the AOAC method specification of 0.01 mL). Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 20-40 minutes at $37\pm 2^\circ\text{C}$ (which differs from the AOAC method specification of 30-40 minutes at 37°C). For each lot of product, separate carriers were sprayed (3 seconds or until thoroughly wet) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C . Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes of Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48 ± 2 hours at $37\pm 2^\circ\text{C}$ (which differs from the AOAC method specification of 48 hours at 37°C). Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for confirmation of the challenge microorganism, carrier counts, sterility, viability, bacteriostasis, neutralizer effectiveness, and antibiotic resistance.

Note: Antibiotic resistance of Extended spectrum β -lactamase *Escherichia coli* (ATCC BAA-196) was verified on a representative culture. An individual Mueller Hinton Agar plate was streaked with the prepared culture in a crosshatch pattern. After crosshatching, an antibiotic disk was added to the center of the plate. The plate was incubated and, following incubation, the zone of inhibition was measured and documented. The measured zone of inhibition (i.e., 0 mm) confirmed antibiotic resistance of Extended spectrum β -lactamase *Escherichia coli* (ATCC BAA-196) to ceftazidime and penicillin. See pages 9 and 15 of the laboratory report.

Note: Protocol deviations/amendments reported in the study were reviewed.

Note: Testing deviated from AOAC method specifications with regard to culture preparation, carrier inoculation, carrier drying, and subculture incubation. These deviations appear to be acceptable.

8. MRID 476968-09 "AOAC Germicidal Spray Test Supplemental," Test Organism: Methicillin-Resistant *Staphylococcus aureus* (MRSA) (ATCC 33591), for Carb, by Felicia L. Sellers. Study conducted at MicroBioTest, Inc. Study completion date – January 12, 2009. Laboratory Project Identification Number 320-483.

This study was conducted against Methicillin-Resistant *Staphylococcus aureus* (ATCC 33591). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995. The product was received ready-to-use. A culture of the challenge microorganism was prepared in accordance with the published AOAC method, with the following exceptions: (1) daily transfers of the culture were incubated at 37±2°C (which differs from the AOAC method specification of 37°C); and (2) the culture was incubated for 48-54 hours (which differs from the AOAC method specification of 48 hours for all bacterial cultures except *Pseudomonas aeruginosa*). Heat-inactivated horse serum was added to the culture to achieve a 5% organic soil load. Ten (10) glass slide carriers were inoculated with 0.01-0.03 mL of a 48-54 hour old suspension of the test organism (which differs from the AOAC method specification of 0.01 mL). Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 20-40 minutes at 37±2°C (which differs from the AOAC method specification of 30-40 minutes at 37°C). For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes of Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C (which differs from the AOAC method specification of 48 hours at 37°C). Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for confirmation of the challenge microorganism, carrier counts, sterility, viability, neutralizer effectiveness, and antibiotic resistance.

Note: Antibiotic resistance of Methicillin-Resistant *Staphylococcus aureus* (ATCC 33591) was verified on a representative culture. An individual Mueller Hinton Agar plate was streaked with the prepared culture in a crosshatch pattern. After crosshatching, an antibiotic disk was added to the center of the plate. The plate was incubated and, following incubation, the zone of inhibition was measured and documented. The measured zone of inhibition (i.e., 0 mm) confirmed antibiotic resistance of Methicillin-Resistant *Staphylococcus aureus* (ATCC 33591) to oxacillin. See pages 9 and 15 of the laboratory report.

Note: Protocol deviations/amendments reported in the study were reviewed.

Note: Testing deviated from AOAC method specifications with regard to culture preparation, carrier inoculation, carrier drying, and subculture incubation. These deviations appear to be acceptable.

9. MRID 476968-10 "AOAC Germicidal Spray Test Supplemental," Test Organism: Vancomycin-resistant *Enterococcus faecalis* (ATCC 51299), for Carb, by Felicia L. Sellers. Study conducted at MicroBioTest, Inc. Study completion date – January 12, 2009. Laboratory Project Identification Number 320-487.

This study was conducted against Vancomycin-resistant *Enterococcus faecalis* (ATCC 51299). Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995. The product was received ready-to-use. A culture of the challenge microorganism was prepared in accordance with the published AOAC method, with the following exceptions: (1) daily transfers of the culture were incubated at 37±2°C (which differs from the AOAC method specification of 37°C); and (2) the culture was incubated for 48-54 hours (which differs from the AOAC method specification of 48 hours for all bacterial cultures except *Pseudomonas aeruginosa*). Heat-inactivated horse serum was added to the culture to achieve a 5% organic soil load. Ten (10) glass slide carriers were inoculated with 0.01-0.03 mL of a 48-54 hour old suspension of the test organism (which differs from the AOAC method specification of 0.01 mL). Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 20-40 minutes at 37±2°C (which differs from the AOAC method specification of 30-40 minutes at 37°C). For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C. Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes of Brain Heart Infusion Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48±2 hours at 37±2°C (which differs from the AOAC method specification of 48 hours at 37°C). Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for confirmation of the challenge microorganism, carrier counts, sterility, viability, bacteriostasis, neutralizer effectiveness, and antibiotic resistance.

Note: Antibiotic resistance of Vancomycin-resistant *Enterococcus faecalis* (ATCC 51299) was verified on a representative culture. An individual Mueller Hinton Agar plate was streaked with the prepared culture in a crosshatch pattern. After crosshatching, an antibiotic disk was added to the center of the plate. The plate was incubated and, following incubation, the zone of inhibition was measured and documented. Presumably, the measured zone of inhibition confirmed antibiotic resistance of Vancomycin-resistant *Enterococcus faecalis* (ATCC 51299) to vancomycin. The measured zone of inhibition was not reported. See page 15 of the laboratory report.

Note: Protocol deviations/amendments reported in the study were reviewed.

Note: Testing deviated from AOAC method specifications with regard to culture preparation, carrier inoculation, carrier drying, and subculture incubation. These deviations appear to be acceptable.

10. MRID 476968-11 "AOAC Germicidal Spray Test - Healthcare," Test Organisms: *Staphylococcus aureus* (ATCC 6538), *Pseudomonas aeruginosa* (ATCC 15442), and *Salmonella enterica* (ATCC 10708), for Carb, by Travis R. Farley. Study conducted at MicroBioTest, Inc. Study completion date – January 14, 2009. Laboratory Project Identification Number 320-490.

This study was conducted against *Staphylococcus aureus* (ATCC 6538), *Salmonella enterica* (ATCC 10708), and *Pseudomonas aeruginosa* (ATCC 15442). Three lots (Lot Nos. 2008-eg-07, 2008-eg-08, and 2008-eg-03) of the product, Carb, were tested using the AOAC Germicidal Spray Products as Disinfectants Method as described in the AOAC Official Methods of Analysis, 16th Edition, 1995. At least one of the product lots tested (i.e., Lot No. 2008-eg-03) was at least 60 days old at the time of testing. The product was received ready-to-use. Testing was conducted on November 12, 2008 and December 9, 2008. Cultures of the challenge microorganisms were prepared in accordance with the published AOAC methods, with the following exceptions: (1) daily transfers of the culture were incubated at $37\pm2^{\circ}\text{C}$ (which differs from the AOAC method specification of 37°C); (2) the *Pseudomonas aeruginosa* culture was incubated for 48-54 hours (which differs from the AOAC method specification of 18-24 hours); (3) the pellicle was removed from the *Pseudomonas aeruginosa* culture (which deviates from the AOAC method instruction not to disturb the pellicle); and (4) the cultures for *Staphylococcus aureus* and *Salmonella enterica* were incubated for 48-54 hours (which differs from the AOAC method specification of 48 hours for all bacterial cultures except *Pseudomonas aeruginosa*). In addition, only one daily transfer was performed for cultures prepared for testing conducted on November 12, 2008 (which differs from the AOAC method specification of at least 3 consecutive daily transfers). Heat-inactivated horse serum was added to the culture to achieve a 5% organic soil load. Sixty (60) glass slide carriers were inoculated with 0.01-0.03 mL of a 48-54 hour old suspension of a test organism (which differs from the AOAC method specification of 0.01 mL). Inoculum was transferred onto a one square inch area of each carrier and immediately spread uniformly over the entire area. The carriers were dried for 30-40 minutes at $37\pm2^{\circ}\text{C}$ (which differs from the AOAC method specification of 30-40 minutes at 37°C). For each lot of product, separate carriers were sprayed (3 seconds) with the product at a distance of 6-10 inches from the carrier surface. The carriers were allowed to remain wet for 3 minutes at 20°C . Following the exposure period, the remaining liquid was drained from each carrier. Individual carriers were transferred to tubes of Lethen Broth with 7% Polysorbate 80 and 1% Lecithin to neutralize. The tubes containing neutralizer were shaken thoroughly after addition of the carriers, as specified in the AOAC method. All subcultures were incubated for 48 ± 2 hours at $37\pm2^{\circ}\text{C}$ (which differs from the AOAC method specification of 48 hours at 37°C). Following incubation, the subcultures were examined for the presence or absence of visible growth. Controls included those for confirmation of the challenge microorganisms, carrier counts, sterility, viability, and neutralizer effectiveness.

Note: The initial test was set up on November 12, 2008. Bacteria from stock culture was transferred into Nutrient Broth and incubated. One subsequent daily transfer was performed. After 48-54 hours incubation, the cultures were used for carrier inoculation. Testing was repeated on December 9, 2008, per the applicant's request. Bacteria from stock culture was transferred into Nutrient Broth and incubated. Five subsequent consecutive daily transfers were performed. After 48-54 hours incubation, the cultures were used for carrier inoculation.

Note: Protocol deviations/amendments reported in the study were reviewed.

Note: Testing deviated from AOAC method specifications with regard to culture preparation, carrier inoculation, carrier drying, and subculture incubation. These deviations appear to be acceptable.

11. MRID 476968-12 "Virucidal Effectiveness Test, Avian Influenza virus (H5N1) (NIBRG-14)," for Carb, by S. Steve Zhou. Study conducted at MicroBioTest, Inc. Study completion date – January 8, 2009. Laboratory Project Identification Number 320-491.

This study was conducted against Avian influenza virus (H5N1) (NIBRG-14) (obtained from Charles River Laboratories), using MDCK cells (ATCC CCL-34) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, were tested according to a MicroBioTest Protocol titled "Virucidal Effectiveness Test, Avian Influenza virus (H5N1) (NIBRG-14)," dated October 10, 2008. The product was received ready-to-use. The viral stock contained a 5% organic load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 30 minutes at ambient temperature. Five replicates per product lot were tested. For each lot of product, separate dried virus films were sprayed with the product at a distance of 7 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 30 seconds at 20°C. Following exposure, the plates were neutralized with MEM with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially in MEM with 1.0 µg/mL Trypsin. MDCK cells in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 4-6 days at 36±2°C in 5±1% CO₂. The cultures were re-fed, as necessary. Following incubation, the cultures were examined for the presence of infectious virus. Controls included those for cell viability/ media sterility, virus stock titer, column titer, plate recovery count, neutralizer effectiveness/ viral interference, and cytotoxicity. The 50% tissue culture infectious dose per mL (TCID₅₀/mL) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

12. MRID 476968-13 "Initial Virucidal Effectiveness Test, Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus)," for Carb, by S. Steve Zhou. Study conducted at MicroBioTest, Inc. Study completion date – January 8, 2009. Laboratory Project Identification Number 320-494.

This study, under the direction of Study Director S. Steve Zhou, was conducted against Bovine viral diarrhea virus (a surrogate for Human hepatitis C virus; obtained from American BioResearch Laboratories), using MDBK cells (ATCC CCL-22) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, were tested according to a MicroBioTest Protocol titled "Initial Virucidal Effectiveness Test, Bovine Viral Diarrhea virus (Surrogate for Human Hepatitis C virus)," dated October 10, 2008. The product was received ready-to-use. The viral stock contained a 5% organic load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-

marked undersides of separate sterile glass Petri dishes. The virus films were dried for 30 minutes at ambient temperature. Five replicates per product lot were tested. For each lot of product, separate dried virus films were sprayed with the product at a distance of 7 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 30 seconds at 20°C. Following exposure, the plates were neutralized with horse serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially in Minimum Essential Medium with 5% horse serum. MDBK cells in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 7-9 days at 36±2°C in 5±1% CO₂. The cultures were re-fed, as necessary. Following incubation, the cultures were examined for the presence of infectious virus. Controls included those for cell viability/ media sterility, virus stock titer, column titer, plate recovery count, neutralizer effectiveness/ viral interference, and cytotoxicity. The 50% tissue culture infectious dose per mL (TCID₅₀/mL) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

13. MRID 476968-14 "Virucidal Effectiveness Test, Human Influenza A virus," for Carb, by S. Steve Zhou. Study conducted at MicroBioTest, Inc. Study completion date – January 8, 2009. Laboratory Project Identification Number 320-496.

This study was conducted against Human influenza A virus (A/PR/8/34) (H1N1) (obtained from Charles River Laboratories), using MDCK cells (ATCC CCL-34) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, were tested according to a MicroBioTest Protocol titled "Initial Virucidal Effectiveness Test, Human Influenza A virus," dated October 10, 2008. The product was received ready-to-use. The viral stock contained a 5% organic load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 30 minutes at ambient temperature. Five replicates per product lot were tested. For each lot of product, separate dried virus films were sprayed with the product at a distance of 7 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 30 seconds at 21°C. Following exposure, the plates were neutralized with MEM with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially in MEM with 2.5µg/mL Trypsin. MDCK cells in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 4-6 days at 36±2°C in 5±1% CO₂. The cultures were re-fed, as necessary. Following incubation, the cultures were examined for the presence of infectious virus. Controls included those for cell viability/ media sterility, virus stock titer, column titer, plate recovery count, neutralizer effectiveness/ viral interference, and cytotoxicity. The 50% tissue culture infectious dose per mL (TCID₅₀/mL) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

14. MRID 476968-15 "Virucidal Effectiveness Test, Respiratory Syncytial Virus, ATCC VR-26" for Carb, by S. Steve Zhou. Study conducted at MicroBioTest, Inc. Study completion date – January 8, 2009. Laboratory Project Identification Number 320-497.

This study was conducted against Respiratory syncytial virus (ATCC VR-26), using HeLa cells (obtained from Diagnostic Hybrids) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, were tested according to a MicroBioTest Protocol titled "Virucidal Effectiveness Test, Respiratory Syncytial Virus," dated October 10, 2008. The product was received ready-to-use. The viral stock contained at least a 5% organic load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 30 minutes at ambient temperature. Five replicates per product lot were tested. For each lot of product, separate dried virus films were sprayed with the product at a distance of 6 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 30 seconds at 21°C. Following exposure, the plates were neutralized with fetal bovine serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephadryl columns, and diluted serially in DMEM with 5% fetal bovine serum. HeLa cells in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 3-5 days at 36±2°C in 5±1% CO₂. The cultures were re-fed, as necessary. Following incubation, the cultures were examined for the presence of infectious virus. Controls included those for cell viability/ media sterility, virus stock titer, column titer, plate recovery count, neutralizer effectiveness/ viral interference, and cytotoxicity. The 50% tissue culture infectious dose per mL (TCID₅₀/mL) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

15. MRID 476968-16 "Confirmatory Virucidal Effectiveness Test, Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus)," for Carb, by Salimatu Jibril. Study conducted at MicroBioTest, Inc. Study completion date – January 16, 2009. Laboratory Project Identification Number 320-501.

This confirmatory study, under the direction of Study Director Salimatu Jibril, was conducted against Bovine viral diarrhea virus (obtained from American BioResearch Laboratories), using MDBK cells (ATCC CCL-22) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, were tested according to a MicroBioTest Protocol titled "Confirmatory Virucidal Effectiveness Test, Bovine Viral Diarrhea virus," dated October 10, 2008. The product was received ready-to-use. The viral stock contained a 5% organic load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 33 minutes at ambient temperature. Five replicates per product lot were tested. For each lot of product, separate dried virus films were sprayed with the product at a distance of 7 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 30 seconds at 19-20°C. Following exposure, the plates were neutralized with horse serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephadryl columns, and diluted serially in Minimum Essential Medium with 5% horse serum. MDBK cells in

multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 7-9 days at $36\pm 2^{\circ}\text{C}$ in $5\pm 1\%$ CO_2 . The cultures were re-fed, as necessary. Following incubation, the cultures were examined for the presence of infectious virus. Controls included those for cell viability/ media sterility, virus stock titer, column titer, plate recovery count, neutralizer effectiveness/ viral interference, and cytotoxicity. The 50% tissue culture infectious dose per mL ($\text{TCID}_{50}/\text{mL}$) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

16. MRID 476968-17 "Virucidal Effectiveness Test, Rhinovirus 39, ATCC VR-340," for Carb, by S. Steve Zhou. Study conducted at MicroBioTest, Inc. Study completion date – January 16, 2009. Laboratory Project Identification Number 320-502.

This study was conducted against Rhinovirus 39 (ATCC VR-340), using H1-HeLa cells (ATCC CRL-1958) as the host system. Two lots (Lot Nos. 2008-eg-07 and 2008-eg-08) of the product, Carb, were tested according to a MicroBioTest Protocol titled "Virucidal Effectiveness Test, Rhinovirus 39," dated November 1, 2008. The product was received ready-to-use. The viral stock contained a 5% organic load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked undersides of separate sterile glass Petri dishes. The virus films were dried for 29 minutes at ambient temperature. Five replicates per product lot were tested. For each lot of product, separate dried virus films were sprayed with the product at a distance of 9 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 30 seconds at $19\text{--}21^{\circ}\text{C}$. Following exposure, the plates were neutralized with fetal bovine serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially in RPMI 1640 with 5% fetal bovine serum. H1-HeLa cells in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 7-9 days at $33\pm 2^{\circ}\text{C}$ in $5\pm 1\%$ CO_2 . The cultures were re-fed, as necessary. Following incubation, the cultures were examined for the presence of infectious virus. Controls included those for cell viability/ media sterility, virus stock titer, column titer, plate recovery count, neutralizer effectiveness/ viral interference and cytotoxicity. The 50% tissue culture infectious dose per mL ($\text{TCID}_{50}/\text{mL}$) was determined using the method of Spearman Karber.

Note: Protocol deviations/amendments reported in the study were reviewed.

17. MRID 476968-18 "Virucidal Effectiveness Test, Poliovirus Type 1, ATCC VR-1562," for Carb, by S. Steve Zhou. Study conducted at MicroBioTest, Inc. Study completion date – January 8, 2009. Laboratory Project Identification Number 320-515.

This study was conducted against Poliovirus type 1 (ATCC VR-1562), using Vero cells (ATCC CCL-81) as the host system. Three lots (Lot Nos. 2008-eg-07, 2008-eg-08, and 2008-eg-03) of the product, Carb, were tested according to a MicroBioTest Protocol titled "Virucidal Effectiveness Test, Poliovirus Type 1," dated November 21, 2008. The product was received ready-to-use. The viral stock contained a 5% organic load. Films of virus were prepared by spreading 0.2 mL of virus inoculum over pre-marked

undersides of separate sterile glass Petri dishes. The virus films were dried for 30 minutes at ambient temperature. Five replicates per product lot were tested. For each lot of product, separate dried virus films were sprayed with the product at a distance of 6 inches from the carrier surface until thoroughly wet. The carriers were allowed to remain wet for 10 minutes at 20°C. Following exposure, the plates were neutralized with fetal bovine serum with 1% Polysorbate 80 and 0.5% Lecithin. The plates were scraped with a cell scraper to re-suspend the contents. The virus-disinfectant mixtures were passed through individual Sephacryl columns, and diluted serially in RPMI 1640 with 5% fetal bovine serum. Vero cells in multi-well culture dishes were inoculated in quadruplicate with selected dilutions. The cultures were incubated for 6-9 days at $36\pm 2^{\circ}\text{C}$ in $5\pm 1\%$ CO_2 . The cultures were re-fed, as necessary. Following incubation, the cultures were examined for the presence of infectious virus. Controls included those for cell viability/ media sterility, virus stock titer, column titer, plate recovery count, neutralizer effectiveness/ viral interference, and cytotoxicity. The 50% tissue culture infectious dose per mL ($\text{TCID}_{50}/\text{mL}$) was determined using the method of Spearman Karber.

V RESULTS

MRID Number	Organism	No. Exhibiting Growth/ Total No. Tested			Carrier Counts (CFU/ Carrier)
		Lot No. 2008-eg-07	Lot No. 2008-eg-08	Lot No. 2008-eg-09	
1-Minute Exposure Time					
476968-02	<i>Trichophyton mentagrophytes</i>	0/10	0/10	0/10	4.0 x 10 ⁵
3-Minute Exposure Time					
476968-03	<i>Acinetobacter baumannii</i>	0/10	0/10	---	2.3 x 10 ⁴
476968-04	Hospital-Associated Methicillin-Resistant <i>Staphylococcus aureus</i> Genotype USA 100	0/10	0/10	---	9.6 x 10 ⁴
476968-05	Hospital-Associated Methicillin-Resistant <i>Staphylococcus aureus</i> Genotype USA 200	0/10	0/10	---	1.7 x 10 ⁵
476968-06	Community-Associated Methicillin-Resistant <i>Staphylococcus aureus</i> Genotype 300	0/10	0/10	---	6.7 x 10 ⁴
476968-07	<i>Escherichia coli</i> O157:H7	0/10	0/10	---	1.2 x 10 ⁴
476968-08	Extended spectrum β- lactamase <i>Escherichia coli</i>	0/10	0/10	---	1.2 x 10 ⁴
476968-09	Methicillin-Resistant <i>Staphylococcus aureus</i>	0/10	0/10	---	1.5 x 10 ⁵
476968-10	Vancomycin-resistant <i>Enterococcus faecalis</i>	0/10	0/10	---	7.8 x 10 ⁴
		Lot No. 2008-eg-07	Lot No. 2008-eg-08	Lot No. 2008-eg-03	
476968-11	<i>Staphylococcus aureus</i> Test Date: 11/12/2008 Test Date: 12/09/2008	1/60	0/60	0/60	3.4 x 10 ⁶
		0/60	1/60	0/60	8.7 x 10 ⁵
476968-11	<i>Salmonella enterica</i> Test Date: 11/12/2008 Test Date: 12/09/2008	1/60	0/60	0/60	1.8 x 10 ⁶
		0/60	1/60	0/60	1.9 x 10 ⁵
476968-11	<i>Pseudomonas aeruginosa</i> Test Date: 11/12/2008 Test Date: 12/09/2008	1/60	1/60	1/60	3.2 x 10 ⁶
		1/60	0/60	0/60	1.3 x 10 ⁶

MRID Number	Organism	Results			Plate Recovery Control
			Lot No. 2008-eg-07	Lot No. 2008-eg-08	
476968-12	Avian influenza virus (H5N1)	10 ⁻² to 10 ⁻³ dilutions	Cytotoxicity		10 ^{7.00} TCID ₅₀ /mL
		10 ⁻⁴ to 10 ⁻⁷ dilutions	Complete inactivation		
		TCID ₅₀ / mL	≤10 ^{3.83}	≤10 ^{3.83}	
		Log reduction	≥3.17	≥3.17	
476968-13	Bovine viral diarrhea virus	10 ⁻² dilution	Cytotoxicity		10 ^{7.00} TCID ₅₀ /mL
		10 ⁻³ to 10 ⁻⁷ dilutions	Complete inactivation		
		TCID ₅₀ / mL	≤10 ^{2.83}	≤10 ^{2.83}	
		Log reduction	≥4.17	≥4.17	
476968-14	Human influenza A virus	10 ⁻² to 10 ⁻³ dilution	Cytotoxicity		10 ^{7.00} TCID ₅₀ /mL
		10 ⁻⁴ to 10 ⁻⁷ dilutions	Complete inactivation		
		TCID ₅₀ / mL	≤10 ^{3.83}	≤10 ^{3.83}	
		Log reduction	≥3.17	≥3.17	
476968-15	Respiratory syncytial virus	10 ⁻² dilution	Cytotoxicity		10 ^{5.50} TCID ₅₀ /mL
		10 ⁻³ to 10 ⁻⁷ dilutions	Complete inactivation		
		TCID ₅₀ / mL	≤10 ^{2.83}	≤10 ^{2.83}	
		Log reduction	≥2.67	≥2.67	
476968-16	Bovine viral diarrhea virus	10 ⁻² dilution	Cytotoxicity		10 ^{6.75} TCID ₅₀ /mL
		10 ⁻³ to 10 ⁻⁷ dilutions	Complete inactivation		
		TCID ₅₀ / mL	≤10 ^{2.83}	≤10 ^{2.83}	
		Log reduction	≥3.92	≥3.92	
476968-17	Rhinovirus 39	10 ⁻² to 10 ⁻³ dilution	Cytotoxicity		10 ^{6.50} TCID ₅₀ /mL
		10 ⁻⁴ to 10 ⁻⁷ dilutions	Complete inactivation		
		TCID ₅₀ / mL	≤10 ^{3.50}	≤10 ^{3.50}	
		Log reduction	≥3.00	≥3.00	

MRID Number	Organism	Results				Plate Recovery Control
			Lot No. 2008-eg-07	Lot No. 2008-eg-08	Lot No. 2008-eg-03	
476968-18	Poliovirus type 1	10 ⁻² dilution	Cytotoxicity			10 ^{6.75} TCID ₅₀ /mL
		10 ⁻³ to 10 ⁻⁷ dilutions	Complete inactivation			
		TCID ₅₀ / mL	≤10 ^{2.83}	≤10 ^{2.83}	≤10 ^{2.83}	
		Log reduction	≥3.92	≥3.92	≥3.92	

VI CONCLUSIONS

1. The submitted efficacy data (MRID 476968-11) support the use of the product, Carb, as a disinfectant with bactericidal activity against *Staphylococcus aureus*, *Salmonella enterica*, and *Pseudomonas aeruginosa* on hard, non-porous surfaces in the presence of a 5% organic soil load for a 3-minute contact time. Killing was observed in the subcultures of at least 59 of the 60 carriers tested against the required number of product lots. At least one of the product lots tested was at least 60 days old at the time of testing. Neutralizer effectiveness testing showed positive growth of the microorganisms. Viability controls were positive for growth. Sterility controls did not show growth.

Note: The "Comments on the Submitted Efficacy Studies" section of this report identifies AOAC method deviations with regard to culture preparation, carrier inoculation, carrier drying, and subculture incubation. These deviations appear to be acceptable.

2. The submitted efficacy data support the use of the product, Carb, as a disinfectant with bactericidal activity against the following microorganisms on hard, non-porous surfaces in the presence of a 5% organic soil load for a 3-minute contact time:

<i>Acinetobacter baumannii</i>	MRID 476968-03
Hospital-Associated Methicillin-Resistant <i>Staphylococcus aureus</i> Genotype USA 100	MRID 476968-04
Hospital-Associated Methicillin-Resistant <i>Staphylococcus aureus</i> Genotype USA 200	MRID 476968-05
Community-Associated Methicillin-Resistant <i>Staphylococcus aureus</i> Genotype 300	MRID 476968-06
<i>Escherichia coli</i> O157:H7	MRID 476968-07
Extended spectrum β-lactamase <i>Escherichia coli</i>	MRID 476968-08
Methicillin-Resistant <i>Staphylococcus aureus</i>	MRID 476968-09
Vancomycin-resistant <i>Enterococcus faecalis</i>	MRID 476968-10

Complete killing was observed in the subcultures of the required number of carriers tested against the required number of product lots. Neutralizer effectiveness testing showed positive growth of the microorganisms. Viability controls were positive for growth. Bacteriostasis controls did not show growth. Sterility controls did not show growth.

Note: The "Comments on the Submitted Efficacy Studies" section of this report identifies AOAC method deviations with regard to culture preparation, carrier inoculation, carrier drying, and subculture incubation. These deviations appear to be acceptable.

3. The submitted efficacy data (MRID 476968-02) support the use of the product, Carb, as a disinfectant with fungicidal activity against *Trichophyton mentagrophytes* on hard, non-porous surfaces in the presence of a 5% organic soil load for a 1-minute contact time. Complete killing was observed in the subcultures of the required number of carriers tested against the required number of product lots. Neutralizer effectiveness testing showed positive growth of the microorganism. Viability controls were positive for growth. Fungistasis controls did not show growth. Sterility controls did not show growth.

Note: The "Comments on the Submitted Efficacy Studies" section of this report identifies AOAC method deviations with regard to culture preparation, carrier inoculation, carrier drying, and subculture incubation. These deviations appear to be acceptable.

4. The submitted efficacy data (MRID 476968-15) do not support the use of the product, Carb, as a disinfectant with virucidal activity against Respiratory syncytial virus on hard, non-porous surfaces in the presence of at least a 5% organic soil load for a 30-second contact time. At least a 3-log reduction in titer was not demonstrated beyond the cytotoxic level. A recoverable virus titer of at least 10^4 was achieved. Cytotoxicity was observed in the 10^{-2} dilutions. Complete inactivation (no growth) was indicated in all higher dilutions tested.

Note: The laboratory reported a log reduction of ≥ 3.40 ; however, this value is based on the titer from the large volume inoculation. [See pages 10 and 11 of the study assigned MRID 476968-15.]

5. The submitted efficacy data support the use of the product, Carb, as a disinfectant with virucidal activity against the following microorganism on hard, non-porous surfaces in the presence of a 5% organic soil load for a 30-second contact time (a 10-minute contact time against Poliovirus type 1):

Avian influenza virus (H5N1)	MRID 476968-12
Bovine viral diarrhea virus (a surrogate for Human hepatitis C virus)	MRID 476968-13 and 476968-16
Human influenza A virus	MRID 476968-14
Poliovirus type 1	MRID 476968-18
Rhinovirus 39	MRID 476968-17

Recoverable virus titers of at least 10^4 were achieved. In studies against Bovine viral diarrhea virus, Rhinovirus 39, and Poliovirus type 1, cytotoxicity was observed in the 10^{-2} dilutions. In studies against Avian influenza virus (H5N1) and Human influenza A virus, cytotoxicity was observed in the 10^{-2} and 10^{-3} dilutions. Complete inactivation (no growth) was indicated in all higher dilutions tested. At least a 3-log reduction in titer was demonstrated beyond the cytotoxic level. Initial and confirmatory studies against Bovine viral diarrhea virus were performed at the same laboratory but under the direction of different study directors.

VII RECOMMENDATIONS

1. The proposed label claims are acceptable regarding the use of the product, Carb, as a disinfectant against the following microorganisms on pre-cleaned, hard, non-porous surfaces for a 3-minute contact time:

Pseudomonas aeruginosa

Staphylococcus aureus

Salmonella enterica

Acinetobacter baumannii

Community-Associated Methicillin-Resistant *Staphylococcus aureus* Genotype 300

Escherichia coli O157:H7

Extended spectrum β -lactamase producing *Escherichia coli*

Methicillin-Resistant *Staphylococcus aureus*

Vancomycin-resistant *Enterococcus faecalis*

The Agency is not currently accepting claims for Hospital Associated Methicillin-Resistant *Staphylococcus aureus* (Hospital-Associated Methicillin-Resistant *Staphylococcus aureus* (HA-MRSA 100) and Hospital-Associated Methicillin-Resistant *Staphylococcus aureus* (HA-MRSA 200).

2. The proposed label claims are acceptable regarding the use of the product, Carb, as a disinfectant against *Trichophyton mentagrophytes* on pre-cleaned, hard, non-porous surfaces for a 1-minute contact time.

3. The proposed label claims are acceptable regarding the use of the product, Carb, as a disinfectant against the following microorganisms on pre-cleaned, hard, non-porous surfaces for a 30-second contact time (10-minute contact time against Poliovirus type 1):

Avian influenza

Bovine viral diarrhea virus (human Hepatitis C virus surrogate)

Human influenza A virus

Poliovirus type 1

Rhinovirus 39

4. The proposed label claims that the product, Carb, is an effective disinfectant against Respiratory syncytial virus on pre-cleaned, hard, non-porous surfaces. As noted in the "Conclusions" section of this report, efficacy data did not demonstrate at least a 3-log reduction in titer beyond the cytotoxic level. All references to use of the product as a disinfectant against Respiratory syncytial virus must be deleted from the proposed label.

5. The proposed label claims that the product, Carb, is streptocidal. Data were not provided to support this claim. This claim must be deleted from page 3 of the proposed label.

6. The proposed label indicates that the product may be used on "finished or painted woodwork;" however, the proposed label also states that the product is not recommended for use on painted surfaces. This inconsistency must be addressed.

7. The following revisions to the proposed label are required:

- Under the "General Use" section on Page 2 of the proposed label, remove the word "safe".
- Under the "Environmental Text" section on Page 4 of the proposed label, the term "recyclable" needs additional clarifying information.
- Under the "Surfaces" section on Page 8 of the proposed label, additional clarity is required for "ceiling". Ceiling materials are often porous.
- Under the "Surfaces" and "Surface Materials" sections on Page 8 of the proposed label, change "fiberglass" to read "sealed fiberglass." Fiberglass is a porous surface.
- Under the "Surface Materials" section on page 8 of the proposed label, change "tile" to read "glazed tile" and change "enamel" to "baked enamel".

~5189035

From: Turpin.Robert@epamail.epa.gov
Sent: Thursday, October 28, 2004 4:20 PM
To: Robert Brennis
Subject: Data requirements for a formulated copper sulfate product

Bob,

As promised, I conferred with Karen Hicks, Team Leader of the Chemistry and Toxicology Team, and the following was determined based on the information you provided:

(a) 830.1700 - Preliminary Analysis (5 batches) is not required because the product is a formulated product and the active ingredient is considered to be a commonly used chemical. In the absence of this requirement, however, the Agency will require a Certificate of Analysis (CoA) and a Material Safety Data Sheet (MSDS);

(b) Series 830, Group A requirements are necessary with your submission. Further, because the source of the active ingredient is not registered with the Agency Group B data is also required. If the applicant chooses to self-certify Group B data he may do so using the forms provided by the Agency on its web-site. Otherwise, such data must be developed under GLP standards;

(c) 830.6317 - Storage Stability is required, however, the applicant may choose to perform the accelerated test protocol at an elevated temperature (40 to 54 degrees C). This requirement is a GLP study. The study of corrosion characteristics of the product in its packaging materials is usually combined with the study of storage stability.

I hope this answers your questions. Should you have further questions, please do not hesitate to contact.

Bob



Brac/Carb: analytical method for quat
Evelyn.Lawson to: Chris Jiang

07/15/2009 07:03 PM

Chris

Here is the analytical method for we sent in shortly after we sent in the application for Carb/Brac We had cited a different analytical method, but this one was updated (and was for aerosols). This method supports both registrations. We sent it in under 5813-67; it is due out of the Agency July 18. The MRID is 47735601. I believe Martha Terry is working on the registration.

Evelyn

=====

J. Evelyn Lawson
Senior Regulatory Information Scientist
The Clorox Company
Phone: 925-425-6842
Facsimile: 925-425-4496
Evelyn.Lawson@Clorox.com

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sender immediately. VOLUME I_analytical_enforcement_method_aerosol_quat_MRID_47735601.pdf



United States
Environmental Protection Agency
Washington, DC 20460
Formulator's Exemption Statement
(40 CFR 152.85)

Applicant's Name and Address: Clorox Professional Products Company c/o PS&RC P.O. Box 493 Pleasanton, CA 94566-0803	EPA File Symbol/Registration Number
	67619-to be assigned
	Product Name
	Carb
Date of Confidential Statement of Formula (EPA Form 8570-4) 3/3/2009	

As an authorized representative of the applicant for registration of the product identified above, I certify that:

(1) This product contains the following active ingredient(s):

Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105)
Didecyl dimethyl ammonium chloride (69149)
Octyl decyl dimethyl ammonium chloride (69165)
Dioctyl dimethyl ammonium chloride (69166)

2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging another product which contains that active ingredient which is registered under FIFRA Section 3, is purchased by us from another person, and meet the requirements of 40 CFR section 158.50(e)(2) or (3).

(3) Indicate by checking (A) or (B) below which paragraph applies:

☐ (A) An accurate Confidential Statement of Formula (EPA FORM 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

OR

☒ (B) The Confidential Statement of Formula (CSF) (EPA FORM 8570-4) referenced above and on file with the EPA is complete, current, and accurate and contains the information required on the current CSF.

(4) The following active ingredients in this product qualify for the formulator's exemption.

Source		
Active Ingredient	Product Name	Registration Number
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105) Didecyl dimethyl ammonium chloride (69149) Octyl decyl dimethyl ammonium chloride (69165) Dioctyl dimethyl ammonium chloride (69166)	[REDACTED]	[REDACTED]
Signature J. Evelyn Lawson	Name and Title J. Evelyn Lawson Senior Regulatory Scientist	Date March 3, 2009



United States
Environmental Protection Agency
Washington, DC 20460
Formulator's Exemption Statement
(40 CFR 152.85)

Applicant's Name and Address: Clorox Professional Products Company c/o PS&RC P.O. Box 493 Pleasanton, CA 94566-0803	EPA File Symbol/Registration Number
	67619-to be assigned
	Product Name
	Carb
Date of Confidential Statement of Formula (EPA Form 8570-4) 3/3/2009	

As an authorized representative of the applicant for registration of the product identified above, I certify that:

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Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105)
Didecyl dimethyl ammonium chloride (69149)
Octyl decyl dimethyl ammonium chloride (69165)
Dioctyl dimethyl ammonium chloride (69166)

(2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging another product which contains that active ingredient which is registered under FIFRA Section 3, is purchased by us from another person, and meet the requirements of 40 CFR section 158.50(e)(2) or (3).

(3) Indicate by checking (A) or (B) below which paragraph applies:

☐ (A) An accurate Confidential Statement of Formula (EPA FORM 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

OR

☒ (B) The Confidential Statement of Formula (CSF) (EPA FORM 8570-4) referenced above and on file with the EPA is complete, current, and accurate and contains the information required on the current CSF.

(4) The following active ingredients in this product qualify for the formulator's exemption.

Source		
Active Ingredient	Product Name	Registration Number
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105) Didecyl dimethyl ammonium chloride (69149) Octyl decyl dimethyl ammonium chloride (69165) Dioctyl dimethyl ammonium chloride (69166)	[REDACTED]	[REDACTED]
Signature <i>J. Evelyn Lawson</i>	Name and Title J. Evelyn Lawson Senior Regulatory Scientist	Date March 3, 2009

TRANSMITTAL DOCUMENT

1. Name and address of submitter

Clorox Professional Products Company
c/o PS&RC
P.O. Box 493
Pleasanton, CA 94566-0803
Attention: J. Evelyn Lawson

2. Regulatory action in support of which this package is submitted

Carb, EPA Reg. No. 67619-*to be assigned*
Product chemistry and efficacy data to support new registration application

3. Transmittal date

March 6, 2009

4. Submitted studies

Vol. II - Product Chemistry - Carb
EPA Reg. No. 67619-*to be assigned*
Series 830

MRID assigned: 47696801

Vol. III - AOAC Germicidal Spray Test for *Trichophyton mentagrophytes*, ATCC 9533, 810.2100 (c), (d), (e), 320-474

MRID assigned: 47696802

Vol. IV - AOAC Germicidal Spray Test Supplemental for *Acinetobacter baumannii*, ATCC 15308, 180.2100 (c),(d),(e), 320-475

MRID assigned: 47696803

Vol. V- AOAC Germicidal Spray Test Supplemental for Hospital-Associated Methicillin-Resistant *Staphylococcus aureus*, Genotype 100 (HA-MRSA 100), NRS382, Clinical Isolate 08009, 180.2100 (c),(d),(e), 320-476

MRID assigned: 47696804

Vol. VI - AOAC Germicidal Spray Test Supplemental for Hospital-Associated Methicillin-Resistant *Staphylococcus aureus*, Genotype 200 (HA-MRSA 200), NRS383, Clinical Isolate 08010, 180.2100 (c),(d),(e), 320-477

MRID assigned: 47696805

Vol. VII - AOAC Germicidal Spray Test Supplemental for Community-Associated Methicillin-Resistant *Staphylococcus aureus*, Genotype 300 (CA-MRSA 300); Clinical Isolate 08001, 180.2100 (c),(d),(e), 320-478

MRID assigned: 47696806

Vol. VIII - AOAC Germicidal Spray Test Supplemental for *Escherichia coli* O157:H7, ATCC 35150, 180.2100 (c),(d),(e), 320-480

MRID assigned: 47696807

Vol. IX - AOAC Germicidal Spray Test Supplemental for Extended Spectrum Beta Lactamase (ESBL) producing *Escherichia coli* (ESBL producing *E.coli*), ATCC BAA-196 180.2100 (c),(d),(e), 380-481

MRID assigned: 47696808

Vol. X - AOAC Germicidal Spray Test Supplemental for Methicillin-Resistant *Staphylococcus aureus* (MRSA), ATCC 33591, 180.2100 (c),(d),(e), 320-483

MRID assigned: 47696809

Vol. XI - AOAC Germicidal Spray Test Supplemental for Vancomycin-resistant *Enterococcus faecalis*, ATCC 51299 180.2100 (c),(d),(e), 320-487

MRID assigned: 47696810

Vol. XII - AOAC Germicidal Spray Test for Healthcare - *Staphylococcus aureus* (ATCC 6538), *Pseudomonas aeruginosa* (ATCC 15442), *Salmonella enterica* (ATCC 10708), 180.2100 (c), (d), (e), 320-490

MRID assigned: 47696811

Vol. XIII - Virucidal Effectiveness Test for Avian Influenza virus (H5N1) (NIBRG-14), 810.2100 (g), 320-491

MRID assigned: 47696812

Vol. XIV - Initial Virucidal Effectiveness Test for Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus), 810.2100 (g), 320-494

MRID assigned: 47696813

Vol. XV - Virucidal Effectiveness Test for Human Influenza A virus, 180.2100 (g), 320-496

MRID assigned: 47696814

Vol. XVI - Virucidal Effectiveness Test for Respiratory Syncytial Virus, ATCC VR-26, 810.2100 (g), 320-497

MRID assigned: 47696815

Vol. XVII - Confirmatory Virucidal Effectiveness Test for Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus), 810.2100 (g), 320-501

MRID assigned: 47696816

Vol. XVIII - Virucidal Effectiveness Test for Rhinovirus 39, ATCC VR-340, 810.2100 (g), 320-502

MRID assigned: 47696817

Vol. XIX - Virucidal Effectiveness Test for Poliovirus Type 1 ATCC VR-1562, 810.2100 (g), 320-515

MRID assigned: 47696818

Company Official: J. Evelyn Lawson

J. Evelyn Lawson
Signature

Company Name: Clorox Professional Products Company
Company Contact: J. Evelyn Lawson
Phone: (925) 425-6842
Fax: (925) 425-4496
E-mail: CTCPSERC@Clorox.com



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M. Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

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DATA MATRIX

Date	March 3, 2009	EPA Reg. No./File Symbol	67619-to be assigned	Page 1 of 7	
Applicant's/Registrant's Name & Address		Product			
Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Carb			
Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550 (61-1)	Product Identity and Composition	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.1600 (61-2a)	Description of Materials Used to Produce the Product	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.1620 (61-2a)	Description of Production Process	Waiver requested			
830.1650 (61-2a)	Description of Formulation Process	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.1670 (61-3)	Discussion of Formation of Impurities	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.1700 (62-1)	Preliminary Analysis	Waiver requested			
830.1750 (62-2)	Certified Limits	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	See CSF
830.1800 (62-3) [for quat]	Enforcement Analytical Method	47603801	The Clorox Company (11/24/2008)	OWN	
830.1800 (62-3) [for EtOH]	Enforcement Analytical Method	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	

Signature

J. Evelyn Lawson

Name and Title J. Evelyn Lawson,
Senior Regulatory Information Scientist

Date
3/3/2009



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M. Street, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

Date	March 3, 2009	EPA Reg. No./File Symbol	67619-to be assigned	Page 2 of 7
Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb	

Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1900 [64-1]	Submittal of Samples	Waiver requested			
830.6302 (63-2)	Color	Waiver requested			
830.6303 (63-3)	Physical state	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.6304 (63-4)	Odor	Waiver requested			
830.6313 (63-13)	Stability to Normal and Elevated Temperature, Metals, and Metal Ions	Waiver requested			
830.6314 (63-14)	Oxidation /Reduction: Chemical Incompatibility	Waiver requested			
830.6315 (63-15)	Flammability	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.6316 (63-16)	Explosibility	Waiver requested			
830.6317 (63-17)	Storage Stability	Waiver requested			

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/3/2009
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401 M. Street, S.W.
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Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb		

Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6319 (63-19)	Miscibility	Waiver requested			
830.6320 (63-20)	Corrosion Characteristics	Waiver requested			
830.6321 (63-21)	Dielectric Breakdown Voltage	Waiver requested			
830.7000 (63-12)	pH	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.7050 [None]	UV/Visible Absorption	Waiver requested			
830.7100(63-18)	Viscosity	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.7200 (63-5)	Melting Point/ Melting Range	Waiver requested			
830.7220 (63-6)	Boiling Point/Boiling Range	Waiver requested			
830.7300 (63-7)	Density/ Relative Density/Bulk Density	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/3/2009
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Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb		
Ingredient	Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7370 (63-10)	Dissociation Constants in Water	Waiver requested			
830.7520 [None]	Particle Size, Fiber Length, and Diameter Distribution	Waiver requested			
830.7550 (63-11)	Partition Coefficient (n-Octanol/Water), Shake Flask Method	Waiver requested			
830.7560 (63-11)	Partition Coefficient (n-Octanol/Water), Generator Column Method	Waiver requested			
830.7570 (63-11)	Partition Coefficient (n-Octanol/Water), Estimation By Liquid Chromatography	Waiver requested			
830.7840 (63-8)	Water Solubility: Column Elution Method; Shake Flask Method	Waiver requested			
830.7860 (63-8)	Water Solubility (Generator Column Method)	Waiver requested			
830.7950 (63-9)	Vapor Pressure	Waiver requested			
870.1100 (81-1)	Acute oral toxicity, rat 5813-67	44636902	The Clorox Company (8/21/1998)	OWN	
870.1200 (81-2)	Acute dermal toxicity, rabbit 5813-67	44636903	The Clorox Company (8/21/1998)	OWN	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/3/2009
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Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb		
Ingredient	Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1300 (81-3)	Acute inhalation toxicity, rat 5813-67	44636904	The Clorox Company (8/21/1998)	OWN	
870.2400 (81-4)	Primary eye irritation, rabbit 5813-67	44636905	The Clorox Company (8/21/1998)	OWN	
870.2500 (81-5)	Primary dermal irritation, rabbit 5813-67	44636906	The Clorox Company (8/21/1998)	OWN	
870.2600 (81-6)	Dermal Sensitization 5813-67	44636907	The Clorox Company (8/21/1998)	OWN	
810.2100 (c),(d),(e)	Trichophyton mentagrophytes, ATCC 9533, 5% soil load; 1 min; 320-474	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (c),(d),(e)	Acinetobacter baumannii, ATCC 15308, 5% soil load; 3 min; 320-475	To be assigned 476968-03	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (c),(d),(e)	Hospital-Associated Methicillin-Resistant Staphylococcus aureus, Genotype USA 100 (HA-MRSA 100), NRS382, Clinical Isolate 08009, 5% soil load; 3 min; 320-476	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (c),(d),(e)	Hospital-Associated Methicillin-Resistant Staphylococcus aureus, Genotype USA 200 (HA-MRSA 200), NRS383, Clinical Isolate 08010, 5% soil load; 3 min; 320-477	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (c),(d),(e)	Community-Associated Methicillin-Resistant Staphylococcus aureus, Genotype 300 (CA-MRSA 300), Clinical Isolate 08001, 5% soil load; 3 min; 320-478	To be assigned 476968-06	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (c),(d),(e)	Escherichia coli O157:H7, ATCC 35150, 5% soil load; 3 min; 320-480	To be assigned 476968-07	Clorox Professional Products Company (3/3/2009)	OWN	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/3/2009
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Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb		
Ingredient	Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.2100 (c),(d),(e)	ESBL (Extended Spectrum Beta Lactamase) producing <i>Escherichia coli</i> (ESBL producing <i>E. coli</i>) (ATCC BAA-196); 5% soil load; 3 min; 320-481	To be assigned 476968-08	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (c),(d),(e)	Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA), ATCC 33591, 5% soil load; 3 min; 320-483	To be assigned 476968-09	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (c),(d),(e)	Vancomycin-resistant <i>Enterococcus faecalis</i> , ATCC 51299, 5% soil load; 3 min; 320-487	To be assigned 476968-10	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (c),(d),(e)	<i>Staphylococcus aureus</i> , (ATCC 6538), <i>Pseudomonas aeruginosa</i> , (ATCC 15442), <i>Salmonella enterica</i> , (ATCC 10708) 5% soil load; 3 min; 320-490	To be assigned 476968-11	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (g)	Avian Influenza virus (H5N1)(NIBRG-14), 5% soil load; 30 sec; 320-491	To be assigned 476968-12	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (g)	Initial Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus), 5% soil load; 30 sec; 320-494	To be assigned 476968-13	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (g)	Human Influenza A virus, A/PR/8/34 (H1N1); 5% soil load; 30 sec; 320-496	To be assigned 476968-14	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (g)	Respiratory Syncytial Virus, ATCC VR-26, ≥ 5% soil load; 30 sec; 320-497	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (g)	Confirmatory Bovine Viral Diarrhea Virus, (Surrogate for Human Hepatitis C virus), 5% soil load; 30 sec; 320-501	To be assigned 476968-16	Clorox Professional Products Company (3/3/2009)	OWN	

Signature

J. Evelyn Lawson

Name and Title J. Evelyn Lawson,
Senior Regulatory Information Scientist

Date

3/3/2009



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Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb		
Ingredient	Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.2100 (g)	Rhinovirus 39, ATCC VR-340, 5% soil load; 30 sec; 320-502	To be assigned 476968-17	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (g)	Poliovirus Type 1, ATCC VR-1562, 5% soil load; 10 min; 320-515	To be assigned 476968-18	Clorox Professional Products Company (3/3/2009)	OWN	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/3/2009
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Date	March 5, 2009	EPA Reg. No./File Symbol	67619-to be assigned	Page 1 of 5
Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb (Note: this is the data matrix for the active ingredient ethanol)	

Ingredient Ethanol (1501)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550 (61-1)	Product Identity and Composition	42705601	American Ripener Co., Inc.	OLD	
830.1600 (61-2a)	Description of Materials Used to Produce the Product	42705601	American Ripener Co., Inc.	OLD	
830.1620 (61-2b)	Description of Production Process	42705601	American Ripener Co., Inc.	OLD	
830.1650 (61-2b)	Description of Formulation Process	N/A	Not required for Manufacturing Use Product		
830.1670 (61-3)	Discussion of Formation of Impurities	42705601	American Ripener Co., Inc.	OLD	
830.1700 (62-1)	Preliminary Analysis	N/A			
830.1750 (62-2)	Certification of Limits	42705602	American Ripener Co., Inc.	OLD	
830.1800 (62-3)	Enforcement Analytical Method	To be assigned	Clorox Professional Products Company (3/5/2009)	OWN	
830.1900 (64-1)	Submittal of Samples	N/A	Not a requirement at time of RED for Aliphatic Alcohols (April 1995)		
830.6302 (63-2)	Color	42705603	American Ripener Co., Inc.	OLD	
830.6303 (63-3)	Physical state	42705603	American Ripener Co., Inc.	OLD	
830.6304 (63-4)	Odor	42705603	American Ripener Co., Inc.	OLD	
830.6313 (63-13)	Stability to Normal and Elevated Temperature, Metals, and Metal Ions	42705603	American Ripener Co., Inc.	OLD	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/5/2009
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Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb (Note: this is the data matrix for the active ingredient ethanol)	

Ingredient Ethanol (1501)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6314 (63-14)	Oxidation /Reduction: Chemical Incompatibility	42705603	American Ripener Co., Inc.	OLD	
830.6315 (63-15)	Flammability	42705603	American Ripener Co., Inc.	OLD	
830.6316 (63-16)	Explosibility	42705603	American Ripener Co., Inc.	OLD	
830.6317 (63-17)	Storage Stability	Waived			
830.6319 (63-19)	Miscibility	42705603	American Ripener Co., Inc.	OLD	
830.6320 (63-20)	Corrosion Characteristics	42705603	American Ripener Co., Inc.	OLD	
830.6321 (63-21)	Dielectric Breakdown Voltage	Waived	Not required for Manufacturing Use Product		
830.7000 (63-12)	pH	42705603	American Ripener Co., Inc.	OLD	
830.7050 [None]	UV/Visible Absorption	Waived	Not required for Manufacturing Use Product		
830.7100(63-18)	Viscosity	42705603	American Ripener Co., Inc.	OLD	
830.7200 (63-5)	Melting Point/ Melting Range	42705603	American Ripener Co., Inc.	OLD	
830.7220 (63-6)	Boiling Point/Boiling Range	42705603	American Ripener Co., Inc.	OLD	
830.7300 (63-7)	Density/Relative Density/Bulk Density	42705603	American Ripener Co., Inc.	OLD	
830.7370 (63-10)	Dissociation Constants in Water	42705603	American Ripener Co., Inc.	OLD	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/5/2009
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Applicant's/Registrant's Name & Address		Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Product Carb (Note: this is the data matrix for the active ingredient ethanol)	
Ingredient Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7520 [None]	Particle Size, Fiber Length, and Diameter Distribution	N/A	The product is neither a powdered-type nor a fibrous product		
830.7550 (63-11)	Partition Coefficient (n-Octanol/Water), Shake Flask Method	Waived			
830.7560 (63-11)	Partition Coefficient (n-Octanol/Water), Generator Column Method	Waived			
830.7570 (63-11)	Partition Coefficient (n-Octanol/Water), Estimation By Liquid Chromatography	Waived			
830.7840 (63-8)	Water Solubility: Column Elution Method; Shake Flask Method	42705603	American Ripener Co., Inc.	OLD	
830.7860 (63-8)	Water Solubility (Generator Column Method)	42705603	American Ripener Co., Inc.	OLD	
830.7950 (63-9)	Vapor Pressure	42705603	American Ripener Co., Inc.	OLD	
72-1a	Fish Toxicity Bluegill	40098001	Novartis Crop Protection	OLD	
72-1c	Fish Toxicity Rainbow Trout	40098001	Novartis Crop Protection	OLD	
72-2a	Invertebrate Toxicity	N/A	Guideline satisfied by studies in public literature	PL	
72-3a	Estuarine/Marine Toxicity Fish	N/A	Guideline satisfied by studies in public literature	PL	
870.1100 (81-1)	Acute oral toxicity, rat	N/A	Guideline satisfied by studies in public literature	PL	

Signature

J. Evelyn Lawson

Name and Title J. Evelyn Lawson,
Senior Regulatory Information Scientist

Date
3/5/2009



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Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb (Note: this is the data matrix for the active ingredient ethanol)		
Ingredient	Ethanol (1501)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1200 (81-2)	Acute dermal toxicity, rabbit	N/A	Guideline satisfied by studies in public literature	PL	
870.1300 (81-3)	Acute inhalation toxicity, rat	N/A	Guideline satisfied by studies in public literature	PL	
870.2400 (81-4)	Primary eye irritation, rabbit	N/A	Guideline satisfied by studies in public literature	PL	
870.2500 (81-5)	Primary dermal irritation, rabbit	N/A	Guideline satisfied by studies in public literature	PL	
870.2600 (81-6)	Dermal Sensitization	N/A	Not a requirement at time of RED for Aliphatic Alcohols (April 1995)		
(82-1a)	90 Day Feeding - Rodent	N/A	Guideline satisfied by studies in public literature	PL	
(82-2)	21 Day Dermal	N/A	Guideline satisfied by studies in public literature	PL	
(82-4)	90 Day Inhalation	N/A	Guideline satisfied by studies in public literature	PL	
(83-1a)	Chronic Feeding Toxicity - Rodent	00031038	Purdue Frederick Company	OLD	
(83-3a)	Development Toxicity - Rat	N/A	Guideline satisfied by studies in public literature	PL	

Signature *J. Evelyn Lawson*

Name and Title J. Evelyn Lawson,
Senior Regulatory Information Scientist

Date
3/5/2009



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Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803		Product	Carb (Note: this is the data matrix for the active ingredient ethanol)	

Ingredient Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
(84-2a)	Gene Mutation (Ames Test)	N/A	Guideline satisfied by studies in public literature	PL	
(84-2b)	Structural Chromosomal Abberation	N/A	Guideline satisfied by studies in public literature	PL	
(84-4)	Other Genotoxic Effects	N/A	Guideline satisfied by studies in public literature	PL	
(85-1)	General Metabolism	N/A	Guideline satisfied by studies in public literature	PL	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/5/2009
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March 5, 2009

Marshall Swindell, Product Manager 33
Document Processing Desk (REGFEE)
Office of Pesticide Programs
U.S. Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Subject: New Product Application for Carb, EPA Reg. No. 67619-*to be assigned*
OPP 304064

Dear Mr. Swindell:

Clorox Professional Products Company is submitting a new product application for Carb, which is similar to Clorox® 409-R, EPA Reg. No. 5813-67. All active ingredients in Carb are the same as Clorox® 409-R, with 4 out of 5 active ingredients having the same percentage; ethanol is lower (now 58.04% vs. 65% in Clorox® 409-R). The ethanol content is being lowered to comply with California VOC (Volatile Organic Compound) regulations.

The following volumes are enclosed – Volume I (administrative materials – one copy) and 3 copies each of Volumes II through XIX. These volumes are product chemistry (Volume II); the remaining volumes are efficacy studies.

Volume I contains the following:

- ✓ Form 8570-1, Application for Pesticide Registration (OPP 304064) (+ 2 copies)
- ✓ PRIA pre-payment fee (pay.gov Tracking ID is 24VA7DB2)
- ✓ Proposed labeling - 5 copies (label # R0803010)
- ✓ Form 8570-27, Formulator's Exemption Statement for 50% quat
- ✓ Form 8570-27, Formulator's Exemption Statement for 80% quat
- ✓ Form 8570-4, Confidential Statements of Formula – Basic & A01; 1 original + 2 copies
- ✓ Form 8570-34, Certification with Respect to Citation of Data for end-use product (EUP)
- ✓ Form 8570-35, Data Matrix (Agency Internal Use Copy) for EUP
- ✓ Form 8570-35, Data Matrix (Public File Copy) for EUP
- ✓ Form 8570-34, Certification with Respect to Citation of Data for Active Ingredient (AI) ethanol
- ✓ Form 8570-35, Data Matrix (Agency Internal Use Copy) for AI ethanol

c/o PS&RC
P.O. Box 493
Pleasanton, CA
94566-0803

(925) 425-6842
Fax: (925) 425-4496



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

March 10, 2009

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

OPP Decision Number: D-407020
EPA File Symbol or Registration Number: 67619-ER
Product Name: CARB
EPA Receipt Date: 09-Mar-2009
EPA Company Number: 67619
Company Name: CLOROX PROFESSIONAL PRODUCTS CO

J. EVELYN LAWSON
CLOROX PROFESSIONAL PRODUCTS CO
C/O PS&RC, PO Box 493
PLEASANTON, CA 94566-0803

SUBJECT: Receipt of Registration Application Subject to Registration Service Fee

Dear Registrant:

The Office of Pesticide Programs has received your application and certification of payment. If you submitted data with this application, the results of the PRN-86-5 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: A540

NEW PRODUCT;NON-FAST TRACK;FIFRA SEC. 2(MM) USES;

No additional payment is due at this time.

If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman at (703) 308-6432.

Sincerely,

A handwritten signature in cursive script that reads "Teresa Souza".

Front End Processing Staff
Information Technology & Resources Management Division

Fee for Service

{846153%~

This package includes the following

☒ New Registration

☐ Amendment

☒ Studies? ☐ Fee Waiver?

☐ volpay % Reduction: ____

for Division

☒ AD

☐ BPPD

☐ RD

Risk Mgr.

33

Receipt No.

S-

846153

EPA File Symbol/Reg. No.

67619-ER

Pin-Punch Date:

3/9/2009

☐ This item is NOT subject to FFS action.

Action Code:

Requested:

A540

Granted:

A540

Amount Due: \$ 4,410

Parent/Child Decisions:

☒ Inert Cleared for Intended Use

☐ Uncleared Inert in Product

Reviewer: Mail Team 3

Date: 3-10-09

Remarks: check for potable rinse after disinfection.

Online Payment

Step 3: Confirm Payment

1 | 2 | 3

Thank you.

Your transaction has been successfully completed.

Pay.gov Tracking Information

Application Name: PRIA Service Fees

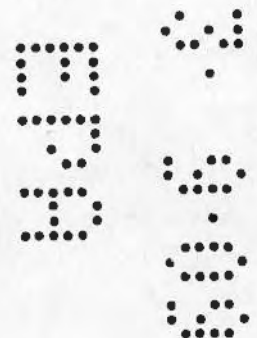
Pay.gov Tracking ID: 24VA7DB2

Agency Tracking ID: 74065360227

Transaction Date and Time: 03/02/2009 18:03 EST

Payment Summary

Address Information	Account Information	Payment Information
Account Holder J. Evelyn Name: Lawson 7200 Johnson Billing Address: Drive Billing Address 2: City: Pleasanton State / Province: CA Zip / Postal Code: 94588-8005 Country: USA	American Card Type: Express Card Number: *****1003 Expiration Date: 1 / 2011 Decision Number: Registration Number: 67619-	Payment Amount: \$4,410.00 Transaction Date 03/02/2009 and Time: 18:03 EST





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M. Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington DC 20460. Do not send the completed form to this address.

Certification with Respect to Citation of Data

Applicant's/Registrant's Name, Address, and Telephone Number Clorox Professional Products Company (925) 425-6842 c/o PS&RC; P. O. Box 493 Pleasanton, CA 94566-0803	EPA Registration Number/File Symbol 67619-to be assigned (Note: this is the for the End-use Product)
Active Ingredient(s) and/or representative test compound(s) Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)	Date March 5, 2009
General Use Pattern(s) (list all those claimed for this product using 40CFR Part 158) Indoor	Product Name Carb

NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix for should be used for this purpose).

SECTION I: METHOD OF DATA SUPPORT (Check one method only)

<input type="checkbox"/> I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data matrix form should be used for this purpose).	<input checked="" type="checkbox"/> I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).
--	---

SECTION II: GENERAL OFFER TO PAY

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☐ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

SECTION III: CERTIFICATION

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-in response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (1) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature <i>J. Evelyn Lawson</i>	Date 3/5/2009	Typed or Printed Name and Title J. Evelyn Lawson, Senior Regulatory Scientist
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF
PREVENTION,
PESTICIDES
AND TOXIC
SUBSTANCES

July 17, 2009

DP BARCODE: D363946

MRID: 47696801

SUBJECT: Carb

REG. NO. OR FILE SYMBOL: 67619-ER

DOCUMENT TYPE: Product Chemistry Review

Manufacturing-use [] OR End-use Product [X]

INGREDIENTS (PC Codes): 069165, 069166, 069149, 069105, 001501

CAS Number: 32426-11-2, 5538-94-3, 7173-51-5,
68424-85-1, 64-17-5

TEST LAB: Clorox Services Company

SUBMITTER: Clorox Professional Products Company

GUIDELINE: 830 Guidelines

COMMODITIES: Formulation

REVIEWER: Chris Jiang CJ

ORGANIZATION: AD

APPROVER: Karen P. Hicks

APPROVED DATE: 7/17/09

COMMENT:



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF
PREVENTION,
PESTICIDES
AND TOXIC
SUBSTANCES

July 17, 2009

MEMORANDUM

Subject: Review for 67619-ER

From: Chris Jiang, Chemist
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

Thru: Karen P. Hicks, CT Team Leader
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

Thru: Michele E. Wingfield, Chief
Product Science Branch
Antimicrobials Division (7510P)

To: Tracy Lantz PM 34\Renae Whitaker .
Regulatory Management Branch II
Antimicrobials Division (7510P)

Applicant: Clorox Professional Products Company

Chris Jiang

*Chris Jiang
for KPM 7/17/09*

Formulation from Label

<u>Active Ingredient(s)</u>	<u>% by wt.</u>
Octyl decyl dimethyl ammonium chloride	0.1890 %
Diocetyl dimethyl ammonium chloride	0.0945 %
Didecyl dimethyl ammonium chloride	0.0945 %
Alkyl (50% C ₁₄ , 40% C ₁₂ , 10% C ₁₆) dimethyl benzyl ammonium chloride	0.2520 %
Ethanol	58.0600 %
<u>Other Ingredients*</u>	41.3100 %
<u>Total</u>	100.0000 %

*This product contains sodium nitrite

BACKGROUND:

The registrant has submitted a product chemistry package for a new product to be used as a disinfectant. The package includes a label, Confidential Statements of Formula (CSFs) for the basic formulation and alternate formulations A01, and studies that have been identified by the Agency as MRID 47696801.

FINDINGS:

1. The concentrations of the active ingredients on the Confidential Statements of Formula (CSFs dated 7/17/2009 for the basic formulation and alternate formulation A01) are consistent with the label declaration. These CSFs supersede all previous CSFs for the respective formulations.
2. All ingredients are cleared for use in pesticidal products.
3. The product identity and composition is **acceptable**.
4. The descriptions of the starting materials and the manufacturing\production\ formulation process are **acceptable**.
5. The discussion of the formation of impurities is **acceptable**.
6. The preliminary analysis is **acceptable**.
7. The wider certified limits for all requested ingredients are **acceptable** because of manufacturing limitations. All other certified are acceptable.
8. The enforcement analytical methods are **acceptable**.
9. The physical state is **acceptable** as the product is a liquid.
10. The density is **acceptable** as it was determined to be 0.874 g/mL (7.3 lbs/gal) at 25 °C.
11. The pH is **acceptable** as the pH was determined to be 10.83 at 20 °C.
12. The oxidation/reduction potential is **acceptable** as the product does not an oxidizing or reducing agent.
13. The flash point is **acceptable** as the flash point was determined to be 17.5 °C (63.5 °F). The flame extension was determined to be 13 to 17 inches. There was no flashback.
14. The explodability is **acceptable** as the product is not potentially explosive.

15. The company is requesting that the joint study for storage stability and corrosion characteristics be made a condition of registration.

16. The viscosity is **acceptable** as it was determined to be 2.44 centipoise at 20 °C and 1.34 centipoise at 40 °C.

17. The miscibility is **acceptable** as the product is not an emulsifiable liquid and is not intended to be diluted with petroleum solvents.

18. The dielectric breakdown voltage is **acceptable** as the product is not to be used around electrical equipment.

CONCLUSIONS:

Product Science Branch of Antimicrobials Division finds the submission for 67619-ER to be acceptable, pending submission and acceptance of the joint study for storage stability and corrosion characteristics.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



United States
Environmental Protection
Agency

Office of Pesticide Programs

Wednesday, June 17, 2009

MEMORANDUM

SUBJECT: Acute Toxicity Review for EPA Reg. No.: 67619-ER
Product Name: CARB
DP Barcode: D364290

FROM: Earl Goad, Biologist
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

Earl Goad
6/17/2009

THRU: Karen Hicks, Team Leader
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

Karen Hicks

THRU: Michele E. Wingfield, Chief
Product Science Branch
Antimicrobials Division (7510P)

TO: Tracy Lantz PM#34/Renae Whitaker
Regulatory Management Branch II
Antimicrobials Division (7510P)

Applicant: The Clorox Company
c/o PS&RC; P.O. Box 493
Pleasanton, CA 94566-0803

PRODUCT FORMULATION FROM LABEL:

<u>PC Codes</u>	<u>Active Ingredient(s):</u>	<u>% by wt.</u>
69165	1-Decanaminium, N,N-dimethyl-N-octyl-, chloride	0.1890
69166	1-Octanaminium, N,N-dimethyl-N-octyl-, chloride	0.0945
69149	1-Decanaminium, N-decyl-N,N-dimethyl-, chloride	0.0945
69105	Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16)	0.2520
001501	Ethanol	58.0600
	<u>Other Ingredient(s):</u> * contains sodium nitrite	41.3100
	<u>Total:</u>	100.0000

I) BACKGROUND:

The registrant has submitted a request to cite as "me-too" or bridge the acute toxicity study data from their previously registered product EPA Reg. # 5813-67 (Clorox 409-R) to satisfy the acute toxicity data requirements for EPA File Symbol: 67619-ER (CARB). The registrant contends that these products as well as another new product (5813-OT "BRAC") are substantially similar to EPA Reg. # 5813-67 (Clorox 409-R).

All three of the formulations contain the same four quaternary ammonium compounds and alcohol in similar concentration. All three product formulations are produced for use contained in aerosol spray cans.

The acute toxicity study data and resulting toxicity profile for EPA Reg. # 5813-67 Clorox 409-R was reported in a review dated December 11, 1998. The acute toxicity profile is currently:

Study	MRID Number	Toxicity Category	Core Grade
Acute Oral Toxicity	446369-02	IV	Accepted
Acute Dermal Toxicity	446369-03	IV	Accepted
Acute Inhalation Toxicity	446369-04	IV	Accepted
Primary Eye Irritation	446369-05	II	Accepted
Primary Skin Irritation	446369-06	IV	Accepted
Dermal Sensitization	446369-07	Sensitizer	Accepted

II) FINDINGS: PSB findings are:

- A. The formulation of this product is substantially similar to the one cited (#5813-67 Clorox 409-R). The main difference is that the concentration of ethanol is nominally 7% less than the cited product. If anything this decrease would result in a lower toxicity and irritation effects.
- B. Acute Oral, Dermal, Inhalation and Primary Skin Irritation categories being cited are all category IV. These are definitely acceptable.
- C. Dermal Sensitization of this product is unlikely to change from a Sensitizer as beside the ethanol there are no significant changes in the concentration of other active or inert ingredients. The citation of the Dermal Sensitization data is also acceptable.
- D. Eye irritation studies are conducted on aerosol products using a one second spray exposure of the test material at a distance of 10 centimeters directed at a rabbit eye which is held open. Subsequently the eyelid is held shut for one second to spread the substance over the eye.

Usually the aerosol can is weighed before and after the spray exposure to be used as a measure of the consistency of spray between subjects. The difference between the weight before and after is used as a relative measure of volume. This was not performed on the product being cited.

A concern was expressed that these new products might not be able to cite the study data for eye irritation because there was no basis for the volume of exposure. Supplementary data was requested in the form of a study to determine the relative volume dispensed in a fixed time interval.

The new products #67619-ER (Carb) and #5813-OT (Brac) respectively deliver 1.6 and 1.4 times the volume of product compared to #5813-67 (Clorox 409-R). One would think this would be significantly more irritating based on the fact that the volumes delivered are larger. However, though these differences are statistically significant, this is only a partial contribution to the eye irritation that might be expected.

The inherent irritation is most importantly based on the formulation. The recommended spray time used is to obtain sufficient volume to cover the eye; excess is squeezed out when lid is held closed after exposure. The one second spray time was determined to be sufficient. Excess volume to what the eye may contain in the case of these new products might be superfluous. The added fact that these new formulations have less irritating alcohol helps mitigate any possible increase of irritancy that would result from slight increase in exposure amount.

Eye irritancy of Category II is acceptable

III) The acute toxicity profile for File Symbol 67619-ER (CARB) is currently:

Study	MRID Number	Toxicity Category	Status
Acute Oral Toxicity	446369-02	IV	Cited*
Acute Dermal Toxicity	*446369-03	IV	Cited*
Acute Inhalation Toxicity	*446369-04	IV	Cited*
Primary Eye Irritation	*446369-05 **477698-01	II	Cited
Primary Skin Irritation	*446369-06	IV	Cited*
Dermal Sensitization	*446369-07	Sensitizer	Cited*

*Cited from EPA Reg. # 5813-67 (Clorox 409-R); ** Supplementary Data

IV) LABELING:

Keep Out of Reach of Children

- A. The signal word for EPA Reg. 67619-ER is **WARNING** based on the category II for Eye Irritation.
- B. Precautionary labeling:

Hazards to Humans and Domestic Animals:

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles or safety glasses). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, food handling and preparation, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.)

C. First Aid Statements:

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

For emergency information on [product, use, etc.], call the **National Pesticides Information Center** at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times, call the poison control center 1-800-222-1222.

Confidential Notice to Product Manager or Product Regulatory Reviewer

Other Labeling Issues!

In performance of the review of these products the product being cited was #5813-67 Clorox 409-R which is similar in formulation.

Clorox 409-R itself has some labeling issues.

- 1. Product contains sodium nitrite but does not state so as part of ingredients statements as is required in LRM. – Needs to be corrected.**
- 2. The Clorox 409-R as well as 5813-OT and 67619-ER have the statement “contains no phosphorus” ? Should this be on the label or where it is on the label?**
- 3. “Dedicated to Healthier World” ? Not found on these similar new products – does it also need to be removed from 409-R.?**

Data Review of Supplemental Bridging Data
For Eye Irritation Study

Product Manager: 31
MRID No.: 477698-01

Reviewer: Earl Goad(CTT)
Completion Date: May 28, 2009
Study No.: 5813-67-018

Testing Laboratory: Clorox Technical Center, Pleasanton, California 94588-8005
Author: Noe Galvan

Quality Assurance (40 CFR §160.12): A Quality Assurance (QA) statement was included. A statement of Good Laboratory Practice (GLP) compliance was included stating that this study meets the requirements of 40 CFR Part 160: U.S. EPA (FIFRA).

Purpose: To provide comparison data relative to delivery amount of material (by weight) of two new products compared to a previously registered (reference) product.

er

New 1: Brac; lot#: 09CARB1(pilot lot)
New 2: Carb; lot #: 09CARB1 (pilot lot)

Test Material Storage: maintained at 70±5°F

Experimental Method: Each can primed, weighed, sprayed for set time, weighted again as follows. Procedure followed with each can in succession.

1. Shake can for approximately 2 seconds.
2. Prime nozzle by spraying for 2 seconds.
3. Weigh and record aerosol can weight.
4. Spray for 3 seconds.
5. Again weigh can and record weight.
6. Repeat steps 1 – 6 with each test sample.

Statistics and Analysis of Data: Average and standard deviation were calculated from the 10 replicates. The p-value was determined using the student t-test in order to compare the statistical differences between the reference (Clorox 409-R) and the new test material (Brac and Carb)

Results:

Dispensed Amount (grams)			
	Clorox 409-R (5813-67)	Carb (67619-ER)	Brae (5813-0T)
Replicate 1	3.58	5.70	5.91
Replicate 2	3.61	6.12	5.89
Replicate 3	3.66	5.86	5.65
Replicate 4	3.67	5.93	5.59
Replicate 5	3.59	5.73	5.63
Replicate 6	3.55	6.01	5.65
Replicate 7	3.71	6.02	5.86
Replicate 8	3.65	5.87	5.88
Replicate 9	3.68	5.87	5.73
Replicate 10	3.55	5.67	5.87
Average	3.63	5.88	5.77
Standard Dev.	0.057	0.148	0.128
% CV	1.57	2.52	2.22
p-value		< 0.0001	< 0.0001

Discussion:

1. The method appears to be sufficiently reliable as indicated by the low coefficient of variation.
2. This method however in no way can indicate anything concerning the spray pattern of the material being dispensed.
3. The standard means of assessing the volume being dispensed is to weigh the can before and after the 1 second spray exposure.
4. This comparative method extended the set time to 3 seconds to increase the precision of holding the time interval.
5. Priming was done make sure the more variable initial spray was avoided.
6. Carb sprayed 1.6 times the volume and Brac sprayed 1.4 times the volume compared to Clorox 409-R.

Conclusions:

The amount of material dispensed for Carb (67619-ER) and Brac (5813-0T) were significantly different than that dispensed for Clorox 409-R (5813-67).

DATA PACKAGE BEAN SHEET

Date: 16-Jun-2009

Page 1 of 2

Decision #: 407020

DP #: (366174)

PRIA

Parent DP #:

Submission #: 851233

*** Registration Information ***

Registration: **67619-ER - CARB**

Company: 67619 - CLOROX PROFESSIONAL PRODUCTS CO

Risk Manager: RM 34 - Adam Heyward - (703) 308-6422 Room# PY1 S-8238

Risk Manager Reviewer: Renae Whitaker RWHITAKE

Sent Date: 04-Jun-2009

Calculated Due Date: 30-Jul-2009

Edited Due Date: _____

Type of Registration: Product Registration - Section 3

Action Desc: (A540) NEW PRODUCT;NON-FAST TRACK;FIFRA SEC. 2(MM) USES;

Ingredients: _____

**COPY FOR YOUR
INFORMATION**

*** Data Package Information ***

Expedite: ☐ Yes ☒ No

Date Sent: 16-Jun-2009

Due Back: _____

DP Ingredient: _____

DP Title: _____

CSF Included: ☐ Yes ☒ No

Label Included: ☐ Yes ☒ No

Parent DP #: _____

Assigned To

Date In

Date Out

Organization: AD / PSB

Last Possible Science Due Date: 30-Jun-2009

Team Name: CTT

Science Due Date: _____

Reviewer Name: _____

Sub Data Package Due Date: _____

Contractor Name: _____

*** Studies Sent for Review ***

Printed on Page 2

*** Additional Data Package for this Decision ***

Can be printed on its own page

*** Data Package Instructions ***

Acute tox : Attention Earl Goad: Please review the attached cover letter and the Supplemental Bridging data (MRID# 477698-01) submitted as requested.

RISK ASSIGNMENT FORM
Antimicrobial Division/Regulatory Management Branch II

A	Completed by Product Manager									
PRODUCT REVIEWER: <i>Renae Whitaker</i>								RMB <u>II</u> TEAM <u>34</u>		
Description of Action: <i>New Product w/ efficacy, chemistry + tox bridging</i>								EPA File Symbol/Reg No. <i>67619-ER</i>		
Decision No. <i>407020</i>			Submission No. <i>851233</i>			Fee for Service Action Code: <i>A540</i>				
FQPA Action Code:			Non-FQPA Action Code:			PRIA FEE AMOUNT: \$				
			MONTH		DAY		YEAR			
APPLICATION DATE							2009			
EPA PIN DATE							2009			
DATE PM RECEIVED FROM FRONT END							2009			
Date sent to Reviewer							2009			
DATE SENT TO SCIENCE <small>(VIVIAN COMPLETES)</small>							2009			
DATE RECEIVED FROM SCIENCE										
NEGOTIATED DUE DATE							DATE DUE OUT OF AGENCY			
Type of Data:	PSB Product Chemistry	PSB Acute Toxicology <div style="text-align: center;">✓</div>	PSB Efficacy	RASSB Environmental Fate	RASSB Ecological Effects	RASSB Chronic Toxicology	RASSB Exposure /Residue			
COMMENTS: <i>Earl Good: Supplemental bridging data per request E. Good to be linked to D: 407020 - EPA File no. 67619-ER DP: 364290</i>										
ATTACHMENTS: <input type="checkbox"/> -LABELING <input type="checkbox"/> -CSF(S) <input type="checkbox"/> -DATA <input type="checkbox"/> -OTHERS										
DATE FEE PAID:					RESPONSE CODE: _____			RESPONSE DATE: _____		

Memorandum

Date: 6 / 10 / 09

To: PM 34, Regulatory Manager

From: Information Services Branch, ITRMD

Your receipt of this data submission is not an indication that MRIDs for the enclosed studies have been posted to OPPIN.

We expect that it will be approximately 5 days from the above date before the study-level data is available in OPPIN.

If you have any questions about this process, please contact Teresa Downs (305-5363).

This is a: ☒ fully accepted submission
☐ partially accepted submission
☐ rejected submission



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

June 8, 2009

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

CLOROX PROFESSIONAL PRODUCTS CO
C/O PS&RC, PO Box 493
PLEASANTON, CA 94566-0803

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your submittal of 29-MAY-09. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.

Receipt for Section 3

S: 851233

Resubmission: ☒ Yes ☐ No

Regulatory Type: Product Registration - Section 3

Fee For Service: ☐ Yes ☒ No

Application Type: New Registration

Billable: ☐ Yes ☒ No

Company: 67619 CLOROX PROFESSIONAL PRODUCTS CO

V

Risk Manager: Antimicrobials Division, Risk Management Team 34

Product #: 67619-ER

Product Name: CARB

Override#:

Me Too

Me Too

Section3:

Product Name:

Application Date: 28-May-2009

id

OPP Rec'd Date: 29-May-2009

id

Front End Date: 04-Jun-2009

id

Risk Manager Send Date: 04-Jun-2009

id

FFS Due Date:

Negotiated Due Date:

OPP Target Date:

Receipt Content

Des

Study

View/Edit

Fast Track: ☐

New Ingredient: ☐

Receipt Description:

supplemental bridging data

New Ingredient

Request Date:

New Ingredient

Received Date:

Form A: ☐

Signature Date:

Form B: ☐

Signature Date:



May 28, 2009

Marshall Swindell, Product Manager 33
Document Processing Desk
Office of Pesticide Programs
U.S. Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Subject: Submission of supplemental bridging data, EPA Reg. No. 67619-ER
OPP 304092

Dear Mr. Swindell:

Enclosed are 3 copies of supplemental data generated to compare the dispensed amounts of 2 pending registrations versus a current registration. The original primary eye irritation study (MRID 44636905) was conducted for Clorox® 409-R (EPA Reg. No. 5813-67). The final report did not include the dispensed amount. The supplemental data contains 10 replicates of the amount dispensed for the following:

- Clorox® 409-R (the original registration), EPA Reg. No. 5813-67
- Brac, EPA File Symbol 5813-OT
- Carb, EPA File Symbol 67619-ER

Although the dispensed amount are different for this pending registration and Brac [EPA File Symbol 5813-OT] *versus* Clorox® 409-R (EPA Reg. No. 5813-67), we do not expect the eye irritation to be any different than that of the reference material, Clorox® 409-R. It is expected that the volume retained in eye would be comparable for all 3 registrations, because any excess material would flow out and not be retained in the eye. This is based on the fact that the primary eye irritation protocol calls for the rabbit's eyelid to be gently held together for about 1 second.

In conclusion, we expect that the volume retained in the eye would be comparable for all 3 registrations, ultimately leading to the same hazard classification. Based on the primary eye irritation protocol and our conclusion, we strongly believe that no further studies should be conducted, as this would lead to unnecessary animal testing.

c/o PS&RC
P.O. Box 493
Pleasanton, CA
94566-0803

(925) 425-6842
Fax: (925) 425-4496

TRANSMITTAL DOCUMENT

1. Name and address of submitter

Clorox Professional Products Company
c/o PS&RC
P.O. Box 493
Pleasanton, CA 94566-0803
Attention: J. Evelyn Lawson

2. Regulatory action in support of which this package is submitted

Carb, EPA File Symbol 67619-ER
Supplemental data to bridge the acute eye toxicity study; this bridges data originally
submitted under 5813-67 (MRID 44636905)

This study also supports the following pending registration:
Brac, EPA File Symbol 5813-OT

3. Transmittal date

May 28, 2009

4. Submitted study

Vol. 1 - Final report: Supplemental Bridging Data for
Clorox Formula F2008.0034; study number 5813-67-018;
unpublished report; 14 pages

MRID assigned: 47769801

Company Official: J. Evelyn Lawson


Signature

Company Name: Clorox Professional Products Company
Company Contact: J. Evelyn Lawson
Phone: (925) 425-6842
Fax: (925) 425-4496
E-mail: CTCPSERC@Clorox.com

Note: **Bold, italicized text is information for the reader and is not part of the label.** [Bracketed information is optional text.]
Text separated by a diamond bullet (◆) denotes -and/or- options. Underlined text is new. Strike-through (~~text~~) means removed.

CARB

ACTIVE INGREDIENTS:

Octyl decyl dimethyl ammonium chloride	0.1890%
Dioctyl dimethyl ammonium chloride	0.0945%
Didecyl dimethyl ammonium chloride	0.0945%
Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chlorides	0.2520%
Ethanol	58.0600%
OTHER INGREDIENTS†	41.3100%
TOTAL:	100.0000%

† This product contains sodium nitrite

KEEP OUT OF REACH OF CHILDREN

WARNING: See back panel for additional precautionary statements.

NET WT. 19 OZ.

This product must not result in the direct or indirect contamination of food products.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eye wear (safety glasses). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. If skin contact with product occurs, wash thoroughly with soap and water, especially prior to food handling and preparation. Remove or cover aquariums and cages before use.

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor for further treatment advice. Have the product container with you when calling a poison control center or doctor or going for treatment. Questions? Call 1-888-797-7225.

PHYSICAL HAZARDS: Flammable: Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130° Fahrenheit may cause bursting.

STORAGE AND DISPOSAL: Pesticide Storage and Disposal: Do not contaminate water, food, or feed by storage and disposal. Store at temperatures below 130° Fahrenheit. **Container Disposal:** Do not puncture or incinerate. Do not reuse empty container. [Please] recycle empty container or discard in trash.

-or-

This container may be recycled in aerosol recycling centers. At present, there are only a few such centers in the U.S. Before offering for recycling, empty the can by using the product according to the label. (DO NOT PUNCTURE!) If recycling is not available, wrap the container and discard in the trash.

-or-

Empty the can by using the product according to the label. (DO NOT PUNCTURE) Some recycling centers accept these steel containers. Otherwise, wrap container and discard in trash.



Questions? Comments? Call toll-free 1-888-797-7225
Mfd. for Clorox Professional Products Company, Oakland, CA 94612
© 2009 The Clorox Company
EPA Reg. No. 67619-XX
EPA Est. No. 58996-MO-1, 5813-CA-5, 71681-GA-1, IL-1, IL-2, 81368-OH-1

Made in [the] USA
Contains no phosphorus
Contains no CFCs or other ozone depleting substances
Federal Regulations Prohibit CFC Propellants in Aerosols

R0803-1

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
[Shake well.] For use on non-food contact surfaces only.

For surfaces that may come in contact with food [such as countertops and high chairs], a potable water rinse is required. Do not use on glassware, utensils or dishes.

General Use

New! [& Improved] to be used as a claim descriptor only for the first 6 months of product on shelf

Claims:

- Avoid use on [polished] wood, painted surfaces, acrylic plastics
- Bleach-free
- Clear formula
- Color safe
- Commercial Solutions®
- Contains no abrasives, harsh acids
- Contains no bleach
- Convenient
- Does not contain bleach
- Easy to use
- Eliminates -or- Removes [kitchen] [bathroom] odors
- For Professional Use
- For use in homes
- For use on both white and colored hard surfaces
- Formula for bathrooms -and/or- kitchens

- Great for everyday use [in the kitchen -or- bathroom]
- Great for Kitchen[s] -and/or- Bathroom[s] [too]
- [Great] For Everyday Use [in Kitchens and Bathrooms]
- Great in the Kitchen and Bathroom
- Institutional [size]
- Is safe for -or- will not harm most hard, nonporous surfaces
- Kitchen formula
- Made for kitchen surfaces and odors
- Multi-Surface
- No mixing
- No Unpleasant Odors
- Non-abrasive formula [will not scratch surfaces]
- Non-Chlorine Formula: Will not bleach clothing or colored surfaces
- Prevents [odors]
- Professional size
- Safe for Special -or- Premium Surfaces

DEODORIZATION

To deodorize: Spray on precleaned surfaces as needed.

Claims:

- Deodorizes -and/or- disinfects -or- helps deodorize
- Deodorizer [for Institutional Use]
- Deodorizes food odors [like garlic and onion] [left behind on kitchen surfaces] [after cooking]
- Eliminates mold odor[s]
- Eliminates odors caused by bacteria [and non-fresh foods]
- Eliminates -or- reduces [kitchen] odors [in the trash can -or- recycling bin odors -or- smells] [caused by germs or bacteria]
- Eliminates pet odors caused by germs or bacteria

- Kills odor causing bacteria in the kitchen -or- bathroom
- Kills odor causing bacteria -or- germs
- Kills -or- eliminates bacteria that cause [bad] odors
- [This product] deodorizes areas that are hard to keep fresh smelling, in the [insert use sites from Tables 1-5]
- [This product] will deodorize hard, nonporous surfaces [including [insert surface[s] from Tables 1-5] [use site[s] from Tables 1-5] [where obnoxious odors may develop]
- [This product] will deodorize surfaces in [insert site[s] from Tables 1-5]
- Removes -or- Eliminates odors

DYE & SCENT DESCRIPTORS AND CLAIMS:

- Contains no [dyes] [added colors]
- Dye-Free
- Free of Added -and/or- Dyes -and/or- Colors
- Free -or- clear of dyes

- Fresh scent formula
- Fresh Scented
- Has a fresh scent -or- fragrance -or- smell

MOLD

To control and prevent the growth of mold:

Spray precleaned surface until thoroughly wet. Surface must remain wet for 1 minute before wiping or air drying. Respray product as necessary for ongoing -or- continual control.

Claims:

- Controls [and] [prevents] mold growth
- Kills [and prevents the growth of] mold

- This product inhibits growth of mold

Organism:

1 minute contact time:

Trichophyton mentagrophytes [ATCC 9533]

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DISINFECTION

To Disinfect: Spray 6 to 10 inches from precleaned surface for 3-4 seconds -or- until thoroughly wet. Surface must remain wet for 10 minutes.

Do not use on glasses, dishes, or utensils.

Claims:

- Antibacterial [spray] [action] [formula]
- An effective disinfectant for use in the kitchen, bathroom, bedroom, and other areas
- Antibacterial [Formula]
- Antibacterial Formula Disinfects
- Antibacterial -or- Germicidal [on hard, nonporous surfaces] [for Kitchens and Bathrooms]
- Antibacterial -or- Germicidal [Formula]
- Antimicrobial
- Bactericidal
- [Bathroom] [Restroom] [Kitchen] disinfectant
- Broad Spectrum Hospital Disinfectant
- Disinfects & [and] Deodorizes
- Disinfectant
- Disinfectant [for Institutional Use]
- Disinfecting formula
- Disinfecting spray
- Disinfect[s]
- Disinfects [Germs]
- Disinfects [washable] kitchen surfaces including killing [99.9% of] germs -and/or- bacteria -and/or- viruses -and/or- fungi
- Easily disinfect
- For [Hospital] [Commercial] [Industrial] & Institutional Use [Only]
- For Healthcare Use
- For Hospital Use
- Fungicidal -or- Antifungal
- Germicidal
- Hospital disinfectant
- Hospital grade disinfectant
- Kills 99.9% of Bacteria
- Kills [99.9% of] Germs
- Kills [99.9% of] [kitchen] [bathroom] bacteria
- Kills [99.9% of] see organism list
- Kills Avian Influenza**
- Kills bacteria -or- germs -or- viruses on washable kitchen -and/or- bathroom surfaces and fixtures
- Kills bacteria -or- viruses
- Kills Flu Virus[†] [Influenza A]
- Kills [household] bacteria [without bleaching]
- Kills Influenza A virus [, the virus that causes the common flu]
- Kills [Salmonella enterica] [kitchen bacteria]
- Leaves hard, nonporous surfaces sanitary -or- disinfected in 10 minutes
- Multi-purpose disinfectant [spray]

- Provides broad spectrum kill of Gram negative and Gram positive micro-organisms
- Pseudomonacidal
- Ready to use disinfectant
- Ready to use formula provides disinfecting and deodorizing
- Spray
- Staphylocidal
- Streptocidal
- [This product] deodorizes and disinfects hard, nonporous surfaces -or- list any use sites: Tables 1-5
- [This product] is a no rinse disinfectant that disinfects, and deodorizes in one labor saving step
- This product is a Broad Spectrum disinfectant, bactericidal according to the AOAC Germicidal Spray Products test method
- This product is effective against the pathogenic fungi Trichophyton mentagrophytes (Athlete's Foot Fungus) when used as directed for disinfection with a contact time of 1 minute on hard, nonporous surfaces in bathrooms, including shower stalls, floors, and glazed bathroom tiles
- [This product] kills 99.9% of bacteria & viruses
- [This product] kills bacteria, viruses and mold
- [This product] kills germs throughout the kitchen -or- restaurant -or- establishment -or- building on hard, nonporous surfaces plus controls mold growth
- This product meets AOAC Germicidal Spray Product Test efficacy standards for hospital disinfectants
- [This product] will disinfect hard, nonporous surfaces [*insert surface[s] from Tables 1-5*] [*use site[s] from Tables 1-5*]
- Use [this product] to disinfect nonporous [*insert use sites/surfaces from Tables 1-5*]. [Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (120°), and allow to air dry.
- Virucidal -or- Antiviral
- [Virucidal] [Bactericidal] [Pseudomonacidal] [Fungicidal] [Deodorizer]

**Kills Avian Influenza virus on precleaned environmental surfaces

†Influenza A

Germicidal against the following [organisms]: -or- [This product] kills the following [organisms]: -or- Disinfects against the following [organisms] -and/or- Fungicidal -and/or- Virucidal:

Organisms:

See organism list

R0803-1

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DISINFECTION continued**Organisms:**

[This product] kills germs: -or- Kills -or- Disinfects against the following bacteria, viruses, mold:

ORGANISMS:**Bacteria:****3 minute contact time:**

Acinetobacter baumannii	[ATCC 15308]
Community-associated Methicillin resistant Staphylococcus aureus, (CA-MRSA Genotype 300)	[Genotype 300]
Escherichia coli O157:H7	[ATCC 35150]
ESBL (Extended Spectrum Beta Lactamase) producing Escherichia coli (ESBL producing E. coli)	[ATCC BAA-196]
Hospital-associated Methicillin resistant Staphylococcus aureus, (HA-MRSA 100)	[Genotype USA 100 NARSA NRS382]
Hospital-associated Methicillin resistant Staphylococcus aureus, (HA-MRSA 200)	[Genotype USA 200 NARSA NRS383]
Methicillin-resistant Staphylococcus aureus	[ATCC 33591]
Pseudomonas aeruginosa	[ATCC 15442]
Salmonella enterica	[ATCC 10708]
Staphylococcus aureus	[ATCC 6538]
Vancomycin-resistant Enterococcus faecalis (VRE)	[ATCC 51299]

Fungus:**1 minute contact time:**

Trichophyton mentagrophytes	[ATCC 9533]
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Viruses (non-enveloped):**30 second contact time:**

Rhinovirus 39	[ATCC VR-340]
---------------	---------------

10 minute contact time:

Poliovirus [type 1] [Polio]	[ATCC VR-1562]
-----------------------------	----------------

Viruses (enveloped):**30 second contact time:**

Avian Influenza	[H5N1 NIBRG-14]
Bovine viral diarrhea virus (human Hepatitis C virus surrogate)	
Human Influenza A virus	[A/PR/8/34 (H1N1)]
Respiratory syncytial virus [cause of respiratory infections in infants] [(leading cause of lower respiratory infection in children)]	[ATCC VR-26]

Environmental Text:

[Important Facts about this product:]

- ◆ This can is made from an average of 25% recycled steel (10% post-consumer)

- ◆ Encourage your local authorities to establish a program to recycle this can
- ◆ Recyclable

R0803-1

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TABLE 1 Medical:**USE SITES**

Ambulances -or- [Emergency Medical] Transport Vehicles
Anesthesia Rooms -or- Areas
[Assisted Living -or- Full Care] Nursing Homes
CAT Lab[oratories]
Central Service Areas
Central Supply Rooms -or- Areas
Critical Care Units -or- CCUs
Doctor's Offices
Donation Centers [blood] [plasma] [semen] [milk] [apheresis]
Emergency Rooms -or- ERs
Eye Surgical Centers
Health Care Settings -or- Facilities
Home Health Care [Settings]
Hospices

Hospitals
[Hospital] Kitchens
Intensive Care Units -or- ICU[s] [areas]
Laboratories
Laundry Rooms
Long Term Care Facilities
[Medical] Clinics [Facilities]
Medical Facilities
Medical -or- Physician's -or- Doctor's Offices
Newborn -or- Neonatal [Nurseries] [Intensive Care] Units [NICU]
Nursing Homes
Nursing -or- Nurses' Stations
Operating Rooms
Ophthalmic Offices
Orthopedics
Outpatient [Surgical Centers (OPSC)] [Clinics] [Facilities]

Patient Areas
Patient Restrooms
Patient Rooms
[Pediatric] Examination Rooms -or- Areas
Pediatric Intensive Care Units [PICU]
Pharmacies
Physicians' Offices
Physical Therapy Rooms -or- Areas
Psychiatric Facilities
Public Areas
Radiology -or- X-Ray Rooms -or- Areas
Recovery Rooms
Rehabilitation Centers
Surgery Rooms -or- Operating Rooms -or- ORs
Waiting Rooms -or- Waiting Areas

SURFACES

anesthesia machines
apheresis machines
autoclaves
bathroom doorknob
bedpans
bedpan cleaner
bedrails
[bedside] commodes
bedside tables
blood pressure cuffs
blood pressure (BP) monitors
cabinets
call boxes
CAT -or- Computerized Axial Tomography equipment
carts
chairs
charging stations
computer peripherals
computer screens
computer tables
cords
counters
[crash] [emergency] carts
diagnostic equipment
docking stations

edges of privacy curtains
[exam -or- examination] tables
external surfaces of [medical] equipment -or- [medical] equipment surfaces
[external] [surfaces of] ultrasound transducers [-and/or- probes]
gurneys
hard, nonporous hospital -or- medical surfaces
[hospital -or- patient] bed(s) [springs] [railings] -or- linings -or- frames
IV [stands] [pumps] [poles]
keyboards
large surfaces
loupes
mammography equipment
medication carts
mobile workstations
mouse pads
MRI -or- Magnetic Resonance Imaging equipment
operating room tables and lights
operating room light switches
overbed tables
paddles
patient chairs
plastic -or- vinyl mattress covers
patient monitoring equipment

patient support and delivery equipment
phlebotomy trays
physical therapy (pt) equipment surfaces
pulse oximeters
PVC tubing
reception counters -or- desks -or- areas
remote controls
respiratory therapy equipment
scales
sequential compression devices
side rails
slit lamps
small surfaces
spine backboards
stethoscopes
stools
stretchers
surfaces in and around toilets in patient rooms
toilet handholds
traction devices
walls [around toilet] [in patient rooms]
wash basins
wheelchairs
x-ray equipment

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

PERSONAL PROTECTIVE SAFETY EQUIPMENT

face shields
goggles
hard hats

protective headgear
silicone rubber -or- PVC hearing protectors

spectacles
vinyl covered earmuffs

R0803-1

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Use on non-critical surfaces in:**TABLE 2 Dental:****USE SITES**

Dental Offices
Examination Rooms
Dental Operatories
Dental -or- Dentists' Offices

SURFACES

amalgamators -and/or- dental curing lights
dental countertops
dental operator surfaces
dentists' -or- dental chairs

endodontic equipment such as apex locators
hard, nonporous [environmental] dental surfaces
light lens covers
pulp testers and motors
reception counters -or- desks -or- areas

TABLE 3 Veterinary and Farm:**USE SITES**

Animal Life Science Laboratories
Animal [Pet] Housing [Kennels] [Facilities]
Animal Holding Areas
[Animal -or- Pet] Grooming Facilities
Animal Transportation Vehicles
Breeding Establishments
Equine Farms

Farms
Kennels
Livestock -and/or- Swine -and/or- Poultry Facilities
Pet [Areas] [Quarters]
Pet Shops -or- Stores
Small Animal Facilities
Tack Shops

Veterinary Clinics -or- Facilities
Veterinary -or- Animal Hospitals
Veterinary [Offices] [Waiting Rooms]
Veterinary [Examination Rooms]
Veterinary [X-ray Rooms]
Veterinary [Operating Rooms]
Zoos

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

SURFACES

animal equipment
around troughs
automatic feeder exteriors
empty cages
external surfaces of [veterinary] equipment

feed rack exteriors
fountains
hard, nonporous [environmental] veterinary surfaces
pens

reception counters -or- desks -or- areas
stalls
veterinary care surfaces
watering appliance exteriors

TABLE 4 Food Service:**USE SITES**

Banquet Halls
Bars
Cafeterias
Catering Facilities
Commercial -or- Institutional Kitchens

Delis [Delicatessens]
Fast Food Chains -or- Restaurants
Food Preparation and Processing Areas
Food [Service -or- Processing] Establishments
Food Serving Areas

Other Food Service Establishments
Restaurants
School Kitchens

SURFACES

any washable (food and non-food contact) surface
where disinfection is required
appliances
dish racks
drain boards
food cases
food trays
freezers

hoods
microwave[s] [exteriors]
oven[s] [exteriors]
plastic -or- metal outdoor furniture
(excluding wood frames and upholstery)
refrigerator[s] [exteriors]
salad bar sneeze guards
stoves -or- stovetops

R0803-1

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TABLE 5 Miscellaneous/General:

USE SITES

Airplanes [Airports]
Ambulances
Athletic [Recreational] Facilities
Automobiles
Barber Shops
Basements
Bathrooms
Bathroom -or- Locker Room
Facilities
Beauty Salons
Bedrooms
Blood Banks
Boats
Bowling Alleys
Buses
Butcher Shops
Cafeterias
Campers
Cars
Churches
Colleges
Convenience Stores
Correctional Facilities
[Damp] Storage Areas
Day Care Centers
Dens
Dorms
Dormitories
Elevators
Emergency Vehicles
Factories
Fast Food Restaurants
[Food Processing] Plants
Funeral Homes
Garages
[Garbage] [Waste] Storage Areas

Gas Stations
Grocery Stores
Gymnasiums -or- Gyms
Health Club[s] [Facilities]
Homes
Home Centers
Hotels
Industrial Facilities
Institutional Kitchens
[Institutional] Laundromats
Institutions
Kennels
Kitchen[s] [surfaces]
Laboratories
Laundromats
Laundry Rooms
Lavatories
Locker Rooms
Lodging Establishment
Lounges
Malls
[Manufacturing] Plants
Manufacturing Plants -or- Facilities
Markets
Mass Merchandisers, Discount Retailers
-and/or- General Merchandise Stores
Military Installations
Mobile Homes
Mortuaries
Motels
Motor Homes
Mudrooms
Nurseries
Office[s] [Buildings]
Pet Areas
Pharmacies

Play Areas -or- Rooms
Playgrounds
[Police -and/or- Fire] Vehicles
Produce Areas
Public Areas
Public Facilities
Public Restrooms
Public Telephone[s] [Booths]
Recreational Centers -or- Facilities
Rental Cars
Rest Stops
Restaurants
Restrooms -or- Restroom Areas
Retail businesses
School Buses
Schools
Shelters
Ships
Shopping Centers
Shops
Shower Rooms
Sports Arenas
Storage Rooms -or- Areas
Subways
Supermarkets
Toolsheds
Transportation Terminals
Trains
Trolleys
Universities
Vacation Homes
Warehouse Clubs

A potable water rinse is required for food contact surfaces.
Do not use on glassware, utensils, or dishes.

R0803-1

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TABLE 5 Miscellaneous/General: continued

SURFACES

appliance exterior[s] [surfaces]
appliance -or- cabinet knobs
bassinets
[bathroom] fixtures
[bathroom] [kitchen] faucet[s]
[handles]
[bath]tubs
bed frames
behind and under counters
behind and under sinks
boats
booster chairs
burner trays
cabinets
car interiors
carts
ceilings
chairs
[children's] furniture
closets
[clothes] [diaper] hampers
[computer] keyboards
cooler exteriors
counters -or- countertops
cupboards
cribs
crystal (non-food contact areas)
desk[s] [tops]
[diaper -or- infant] changing [tables]
-or- areas [stations]
diaper pails
dictating equipment [surfaces]
[dining] [fast food] [kitchen] [picnic]
[play] [restaurant] [tray] tables
dining room surfaces -and/or- tables
-and/or- fast food restaurant tables
door[s] [handle[s]] [frame[s]]
doorknobs
drain boards
drawer pulls
dressing carts

elevator buttons
enamel
exercise machines
exhaust fans
exterior -or- external toilet surfaces
exterior -or- external urinal surfaces
exterior surfaces of
urinals -and/or- toilets
faucets
fax machine[s] [handles]
fiberglass
[filing] [medicine] cabinets
finished hardwood
finished -or- painted woodwork
finished windowsills
fixtures
floors [around toilets]
furniture
freezer exteriors
garage surfaces
garbage -or- trash cans
glazed ceramic [restroom surfaces]
glazed [ceramic] tile[s]
glazed porcelain [tiling -or- tile]
[grocery [store] -or- supermarket]
carts
[grocery [store] -or- supermarket]
cart handles
[grocery [store] -or- supermarket]
cart child seats
gym[nastic] equipment
hampers
[hand]railings -or- rails
[hard] plastic -or- vinyl
headsets
high chairs (non-food contact
areas)
[kids'] play [structures]
[equipment] [furniture] [tables]
[kitchen] appliance exteriors
light fixtures -or- switches -or- panels

linoleum
lockers
[medicine] cabinets
metal
metal blinds
metal work benches
microwave exterior
office machinery
office -or- bedroom -or-
bedside furniture
other telecommunication
equipment surfaces
outdoor grill exteriors
outdoor -or- patio furniture
oven doors
pet areas -or- surfaces
phones
plastic laundry hampers -or- baskets
plastic patio furniture
-or- lawn chairs
plastic shower curtains
plastic surfaces associated with:
floors, walls, fixtures, toilets,
urinals, sinks, shower rooms
and locker rooms
playground equipment
playpens
portable toilet exteriors
[public -or- pay] telephones
-or- phone booths
range hoods
recycling bins
refrigerator door handles
refrigerator exterior
RVs
shelves [and drawers]
shower[s] [area] [curtains]
[doors] [stalls] [walls]
signs
sink[s] [basins]
seats

sports equipment
stainless steel
stall doors
staplers
stovetops -or- stoves
synthetic marble
tables [tabletops]
[tiled] walls
tires
[toilet [flush]] [telephone] [cabinet]
[dishwasher] [door] handles
toilet -and/or- urinal exterior[s]
[surfaces] -or- exterior toilet
surfaces toilet[s] [handle] [rims]
[seats] [tops]
tools
towel dispensers
toy boxes -or- storage bins
trailers
[training] toilets
trash cans -or- compactors
tray tables
tubs
urinals
vanity tops -or- vanities
vehicles
vending machine surfaces
[vinyl] linoleum -or- wallpaper
walkers
walls
[washable] floors [including
linoleum, no-wax, vinyl, and
glazed ceramic tile]
washable kitchen surfaces
[washable] walls
washers/dryers -or-
washing machine exterior[s]
wastebaskets
whirlpool tubs
window [blinds] [shades]
windshields
wrestling mats

SURFACE MATERIALS

[baked] enamel
chrome
[common] hard, nonporous
[household -or- environmental]
surfaces
fiberglass
Formica
glazed ceramic [tile]

glazed porcelain
laminated surfaces
Marlite
painted surfaces
plastic [lamine]
plexiglass
porcelain enamel
stainless steel

synthetic marble
tile
vinyl [tile]
similar hard, nonporous
surfaces except for those
excluded by the label

Not Recommended For Use On
-or- Avoid Contact With:
acrylic plastics
natural marble
painted surfaces
paper surfaces
[polished] wood
rubber
unfinished wood

R0803-1



March 5, 2009

Marshall Swindell, Product Manager 33
Document Processing Desk (REGFEE)
Office of Pesticide Programs
U.S. Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Subject: New Product Application for Carb, EPA Reg. No. 67619-*to be assigned*
OPP 304064

Dear Mr. Swindell:

Clorox Professional Products Company is submitting a new product application for Carb, which is similar to Clorox® 409-R, EPA Reg. No. 5813-67. All active ingredients in Carb are the same as Clorox® 409-R, with 4 out of 5 active ingredients having the same percentage; ethanol is lower (now 58.04% vs. 65% in Clorox® 409-R). The ethanol content is being lowered to comply with California VOC (Volatile Organic Compound) regulations.

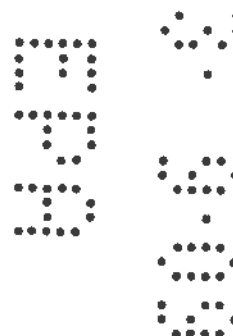
The following volumes are enclosed – Volume I (administrative materials – one copy) and 3 copies each of Volumes II through XIX. These volumes are product chemistry (Volume II); the remaining volumes are efficacy studies.

Volume I contains the following:

- ✓ Form 8570-1, Application for Pesticide Registration (OPP 304064) (+ 2 copies)
- ✓ PRIA pre-payment fee (pay.gov Tracking ID is 24VA7DB2)
- ✓ Proposed labeling - 5 copies (label # R0803010)
- ✓ Form 8570-27, Formulator's Exemption Statement for 50% quat
- ✓ Form 8570-27, Formulator's Exemption Statement for 80% quat
- ✓ Form 8570-4, Confidential Statements of Formula – Basic & A01; 1 original + 2 copies
- ✓ Form 8570-34, Certification with Respect to Citation of Data for end-use product (EUP)
- ✓ Form 8570-35, Data Matrix (Agency Internal Use Copy) for EUP
- ✓ Form 8570-35, Data Matrix (Public File Copy) for EUP
- ✓ Form 8570-34, Certification with Respect to Citation of Data for Active Ingredient (AI) ethanol
- ✓ Form 8570-35, Data Matrix (Agency Internal Use Copy) for AI ethanol

c/o PS&RC
P.O. Box 493
Pleasanton, CA
94566-0803

(925) 425-6842
Fax: (925) 425-4496



- ✓ Form 8570-35, Data Matrix (Public File Copy) for AI ethanol
- ✓ Waiver Requests for EUP
- ✓ Transmittal document

All submitted efficacy studies were conducted using formula F2008.0034, which uses a lower purity source of ethanol (96% vs. 99.6%). The exact formula is listed in the product chemistry volume. We are citing the toxicity data from EPA Reg. No. 5813-67; (F1998.0045, samples 98-032 and 98-032A). The formula is enclosed in the product chemistry package, and it is the same as the basic formula for Clorox® 409-R. Additionally, we are using the same precautionary text as 5813-67.

We enclose an extra copy of both the cover letter and the transmittal document for all submitted studies.

We request a copy of the product chemistry efficacy Data Evaluation Records (DERs) to be included with the Agency's response to this letter.

We believe that the following pesticide registration service fee information applies:

- Category: A540 - This is a new end use product; FIFRA §2(mm) uses only
- Fee amount: \$4,410.00
- Decision time: 4 months

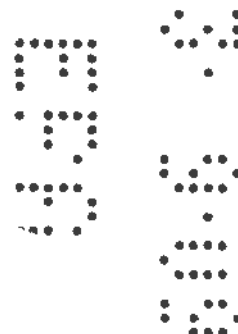
Thank you for your help in the timely review of this application. If you have any questions, please call me at 925 425-6842 or Jamie Quon at 925-425-6292.

Sincerely,



J. Evelyn Lawson
Senior Regulatory Information Scientist

Phone: (925) 425-6842
Fax: (925) 425-4496
Email: CTCPSERC@clorox.com



TRANSMITTAL DOCUMENT

1. Name and address of submitter

Clorox Professional Products Company
c/o PS&RC
P.O. Box 493
Pleasanton, CA 94566-0803
Attention: J. Evelyn Lawson

2. Regulatory action in support of which this package is submitted

Carb, EPA Reg. No. 67619-*to be assigned*
Product chemistry and efficacy data to support new registration application

3. Transmittal date

March 6, 2009

4. Submitted studies

Vol. II - Product Chemistry - Carb
EPA Reg. No. 67619-*to be assigned*
Series 830

MRID assigned: _____

Vol. III - AOAC Germicidal Spray Test for *Trichophyton mentagrophytes*, ATCC 9533, 810.2100 (c), (d), (e), 320-474

MRID assigned: _____

Vol. IV - AOAC Germicidal Spray Test Supplemental for *Acinetobacter baumannii*, ATCC 15308, 180.2100 (c),(d),(e), 320-475

MRID assigned: _____

Vol. V- AOAC Germicidal Spray Test Supplemental for Hospital-Associated Methicillin-Resistant *Staphylococcus aureus*, Genotype 100 (HA-MRSA 100), NRS382, Clinical Isolate 08009, 180.2100 (c),(d),(e), 320-476

MRID assigned: _____

Vol. VI - AOAC Germicidal Spray Test Supplemental for Hospital-Associated Methicillin-Resistant *Staphylococcus aureus*, Genotype 200 (HA-MRSA 200), NRS383, Clinical Isolate 08010, 180.2100 (c),(d),(e), 320-477

MRID assigned: _____

Vol. VII - AOAC Germicidal Spray Test Supplemental for Community-Associated Methicillin-Resistant *Staphylococcus aureus*, Genotype 300 (CA-MRSA 300); Clinical Isolate 08001, 180.2100 (c),(d),(e), 320-478

MRID assigned: _____

Vol. VIII - AOAC Germicidal Spray Test Supplemental for *Escherichia coli* O157:H7, ATCC 35150, 180.2100 (c),(d),(e), 320-480

MRID assigned: _____

Vol. IX - AOAC Germicidal Spray Test Supplemental for Extended Spectrum Beta Lactamase (ESBL) producing *Escherichia coli* (ESBL producing *E. coli*), ATCC BAA-196 180.2100 (c),(d),(e), 380-481

MRID assigned: _____

Vol. X - AOAC Germicidal Spray Test Supplemental for Methicillin-Resistant *Staphylococcus aureus* (MRSA), ATCC 33591, 180.2100 (c),(d),(e), 320-483

MRID assigned: _____

Vol. XI - AOAC Germicidal Spray Test Supplemental for Vancomycin-resistant *Enterococcus faecalis*, ATCC 51299 180.2100 (c),(d),(e), 320-487

MRID assigned: _____

Vol. XII - AOAC Germicidal Spray Test for Healthcare - *Staphylococcus aureus* (ATCC 6538), *Pseudomonas aeruginosa* (ATCC 15442), *Salmonella enterica* (ATCC 10708), 180.2100 (c), (d), (e), 320-490

MRID assigned: _____

Vol. XIII - Virucidal Effectiveness Test for Avian Influenza virus (H5N1) (NIBRG-14), 810.2100 (g), 320-491

MRID assigned: _____

Vol. XIV - Initial Virucidal Effectiveness Test for Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus), 810.2100 (g), 320-494

MRID assigned: _____

Vol. XV - Virucidal Effectiveness Test for Human Influenza A virus, 180.2100 (g), 320-496

MRID assigned: _____

Vol. XVI - Virucidal Effectiveness Test for Respiratory Syncytial Virus, ATCC VR-26, 810.2100 (g), 320-497

MRID assigned: _____

Vol. XVII - Confirmatory Virucidal Effectiveness Test for Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus), 810.2100 (g), 320-501

MRID assigned: _____

Vol. XVIII - Virucidal Effectiveness Test for Rhinovirus 39, ATCC VR-340, 810.2100 (g), 320-502

MRID assigned: _____

Vol. XIX - Virucidal Effectiveness Test for Poliovirus Type 1 ATCC VR-1562, 810.2100 (g), 320-515

MRID assigned: _____

Company Official: J. Evelyn Lawson

J. Evelyn Lawson
Signature

Company Name: Clorox Professional Products Company
Company Contact: J. Evelyn Lawson
Phone: (925) 425-6842
Fax: (925) 425-4496
E-mail: CTCPSERC@Clorox.com



United States
Environmental Protection Agency
Washington, DC 20460

☒ Registration
☐ Amendment
☐ Other

OPP Identifier Number

304064

Application for Pesticide - Section I

1. Company/Product Number 67619-to be assigned ER	2. EPA Product Manager Marshall Swindell	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Carb	PM# 33	
5. Name and Address of Applicant (Include ZIP Code) Clorox Professional Products Company; c/o PS&RC P.O. Box 493 Pleasanton, CA 94566-0803 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

New product submission (see cover letter for details).

Pesticide registration service fee information:

Category: A540; This is a new product, old chemical, which requires science review other than chemistry (efficacy data are being submitted)

Fee Amount: \$4410; email address: CTCPSERC@Clorox.com

Pay.gov Tracking ID is 24VA7DB2

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	
				<input type="checkbox"/> Plastic	
				<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 19 oz		5. Location of Label Directions <input checked="" type="checkbox"/> on label	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name J. Evelyn Lawson		Title Senior Regulatory Information Scientist		Telephone No. (Include Area Code) (925) 425-6842	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received (Stamped)
2. Signature J. Evelyn Lawson		3. Title Senior Regulatory Information Scientist			
4. Typed Name J. Evelyn Lawson		5. Date March 6, 2009			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M. Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137) U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date	March 3, 2009	EPA Reg. No./File Symbol	67619- <i>to be assigned</i>	Page 1 of 7	
Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb		
Ingredient	Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550 (61-1)	Product Identity and Composition	<i>To be assigned</i>	Clorox Professional Products Company (3/3/2009)	OWN	
830.1600 (61-2a)	Description of Materials Used to Produce the Product	<i>To be assigned</i>	Clorox Professional Products Company (3/3/2009)	OWN	
830.1620 (61-2a)	Description of Production Process	Waiver requested			
830.1650 (61-2a)	Description of Formulation Process	<i>To be assigned</i>	Clorox Professional Products Company (3/3/2009)	OWN	
830.1670 (61-3)	Discussion of Formation of Impurities	<i>To be assigned</i>	Clorox Professional Products Company (3/3/2009)	OWN	
830.1700 (62-1)	Preliminary Analysis	Waiver requested			
830.1750 (62-2)	Certified Limits	<i>To be assigned</i>	Clorox Professional Products Company (3/3/2009)	OWN	See CSF
830.1800 (62-3) [for quat]	Enforcement Analytical Method	47603801	The Clorox Company (11/24/2008)	OWN	
830.1800 (62-3) [for EtOH]	Enforcement Analytical Method	<i>To be assigned</i>	Clorox Professional Products Company (3/3/2009)	OWN	

Signature

*J. Evelyn Lawson*Name and Title J. Evelyn Lawson,
Senior Regulatory Information Scientist

Date

3/3/2009



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M. Street, S.W.
WASHINGTON, D.C. 20460

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Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb		
Ingredient	Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1900 (64-1)	Submittal of Samples	Waiver requested			
830.6302 (63-2)	Color	Waiver requested			
830.6303 (63-3)	Physical state	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.6304 (63-4)	Odor	Waiver requested			
830.6313 (63-13)	Stability to Normal and Elevated Temperature, Metals, and Metal Ions	Waiver requested			
830.6314 (63-14)	Oxidation /Reduction: Chemical Incompatibility	Waiver requested			
830.6315 (63-15)	Flammability	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.6316 (63-16)	Explodability	Waiver requested			
830.6317 (63-17)	Storage Stability	Waiver requested			

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/3/2009
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M. Street, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6319 (63-19)	Miscibility	Waiver requested			
830.6320 (63-20)	Corrosion Characteristics	Waiver requested			
830.6321 (63-21)	Dielectric Breakdown Voltage	Waiver requested			
830.7000 (63-12)	pH	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.7050 [None]	UV/Visible Absorption	Waiver requested			
830.7100(63-18)	Viscosity	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.7200 (63-5)	Melting Point/ Melting Range	Waiver requested			
830.7220 (63-6)	Boiling Point/Boiling Range	Waiver requested			
830.7300 (63-7)	Density/ Relative Density/Bulk Density	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/3/2009
-----------	------------------	----------------	--	------	----------



March 5, 2009

Marshall Swindell, Product Manager 33
Document Processing Desk (REGFEE)
Office of Pesticide Programs
U.S. Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Subject: New Product Application for Carb, EPA Reg. No. 67619-*to be assigned*
OPP 304064

Dear Mr. Swindell:

Clorox Professional Products Company is submitting a new product application for Carb, which is similar to Clorox® 409-R, EPA Reg. No. 5813-67. All active ingredients in Carb are the same as Clorox® 409-R, with 4 out of 5 active ingredients having the same percentage; ethanol is lower (now 58.04% vs. 65% in Clorox® 409-R). The ethanol content is being lowered to comply with California VOC (Volatile Organic Compound) regulations.

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- ✓ Form 8570-35, Data Matrix (Agency Internal Use Copy) for EUP
- ✓ Form 8570-35, Data Matrix (Public File Copy) for EUP
- ✓ Form 8570-34, Certification with Respect to Citation of Data for Active Ingredient (AI) ethanol
- ✓ Form 8570-35, Data Matrix (Agency Internal Use Copy) for AI ethanol

c/o PS&RC
P.O. Box 493
Pleasanton, CA
94566-0803

(925) 425-6842
Fax: (925) 425-4496

TRANSMITTAL DOCUMENT

1. Name and address of submitter

Clorox Professional Products Company
c/o PS&RC
P.O. Box 493
Pleasanton, CA 94566-0803
Attention: J. Evelyn Lawson

2. Regulatory action in support of which this package is submitted

Carb, EPA Reg. No. 67619-*to be assigned*
Product chemistry and efficacy data to support new registration application

3. Transmittal date

March 6, 2009

4. Submitted studies

Vol. II - Product Chemistry - Carb
EPA Reg. No. 67619-*to be assigned*
Series 830

MRID assigned: 47696801

Vol. III - AOAC Germicidal Spray Test for *Trichophyton mentagrophytes*, ATCC 9533, 180.2100 (c), (d), (e), 320-474

MRID assigned: 47696802

Vol. IV - AOAC Germicidal Spray Test Supplemental for *Acinetobacter baumannii*, ATCC 15308, 180.2100 (c),(d),(e), 320-475

MRID assigned: 47696803

Vol. V- AOAC Germicidal Spray Test Supplemental for Hospital-Associated Methicillin-Resistant *Staphylococcus aureus*, Genotype 100 (HA-MRSA 100), NRS382, Clinical Isolate 08009, 180.2100 (c),(d),(e), 320-476

MRID assigned: 47696804

Vol. VI - AOAC Germicidal Spray Test Supplemental for Hospital-Associated Methicillin-Resistant *Staphylococcus aureus*, Genotype 200 (HA-MRSA 200), NRS383, Clinical Isolate 08010, 180.2100 (c),(d),(e), 320-477

MRID assigned: 47696805

Vol. VII - AOAC Germicidal Spray Test Supplemental for Community-Associated Methicillin-Resistant *Staphylococcus aureus*, Genotype 300 (CA-MRSA 300); Clinical Isolate 08001, 180.2100 (c),(d),(e), 320-478

MRID assigned: 47696806

Vol. VIII - AOAC Germicidal Spray Test Supplemental for *Escherichia coli* O157:H7, ATCC 35150, 180.2100 (c),(d),(e), 320-480

MRID assigned: 47696807

Vol. IX - AOAC Germicidal Spray Test Supplemental for Extended Spectrum Beta Lactamase (ESBL) producing *Escherichia coli* (ESBL producing *E. coli*), ATCC BAA-196 180.2100 (c),(d),(e), 380-481

MRID assigned: 47696808

Vol. X - AOAC Germicidal Spray Test Supplemental for Methicillin-Resistant *Staphylococcus aureus* (MRSA), ATCC 33591, 180.2100 (c),(d),(e), 320-483

MRID assigned: 47696809

Vol. XI - AOAC Germicidal Spray Test Supplemental for Vancomycin-resistant *Enterococcus faecalis*, ATCC 51299 180.2100 (c),(d),(e), 320-487

MRID assigned: 47696810

Vol. XII - AOAC Germicidal Spray Test for Healthcare - *Staphylococcus aureus* (ATCC 6538), *Pseudomonas aeruginosa* (ATCC 15442), *Salmonella enterica* (ATCC 10708), 180.2100 (c), (d), (e), 320-490

MRID assigned: 47696811

Vol. XIII - Virucidal Effectiveness Test for Avian Influenza virus (H5N1) (NIBRG-14), 810.2100 (g), 320-491

MRID assigned: 47696812

Vol. XIV - Initial Virucidal Effectiveness Test for Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus), 810.2100 (g), 320-494

MRID assigned: 47696813

Vol. XV - Virucidal Effectiveness Test for Human Influenza A virus, 180.2100 (g), 320-496

MRID assigned: 47696814

Vol. XVI - Virucidal Effectiveness Test for Respiratory Syncytial Virus, ATCC VR-26, 810.2100 (g), 320-497

MRID assigned: 47696815

Vol. XVII - Confirmatory Virucidal Effectiveness Test for Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus), 810.2100 (g), 320-501

MRID assigned: 47696816

Vol. XVIII - Virucidal Effectiveness Test for Rhinovirus 39, ATCC VR-340, 810.2100 (g), 320-502

MRID assigned: 47696817

Vol. XIX - Virucidal Effectiveness Test for Poliovirus Type 1 ATCC VR-1562, 810.2100 (g), 320-515

MRID assigned: 47696818

Company Official: J. Evelyn Lawson

J. Evelyn Lawson
Signature

Company Name: Clorox Professional Products Company
Company Contact: J. Evelyn Lawson
Phone: (925) 425-6842
Fax: (925) 425-4496
E-mail: CTCPSERC@Clorox.com



March 5, 2009

Marshall Swindell, Product Manager 33
Document Processing Desk (REGFEE)
Office of Pesticide Programs
U.S. Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Subject: New Product Application for Carb, EPA Reg. No. 67619-*to be assigned*
OPP 304064

Dear Mr. Swindell:

Clorox Professional Products Company is submitting a new product application for Carb, which is similar to Clorox® 409-R, EPA Reg. No. 5813-67. All active ingredients in Carb are the same as Clorox® 409-R, with 4 out of 5 active ingredients having the same percentage; ethanol is lower (now 58.04% vs. 65% in Clorox® 409-R). The ethanol content is being lowered to comply with California VOC (Volatile Organic Compound) regulations.

The following volumes are enclosed – Volume I (administrative materials – one copy) and 3 copies each of Volumes II through XIX. These volumes are product chemistry (Volume II); the remaining volumes are efficacy studies.

Volume I contains the following:

- ✓ Form 8570-1, Application for Pesticide Registration (OPP 304064) (+ 2 copies)
- ✓ PRIA pre-payment fee (pay.gov Tracking ID is 24VA7DB2)
- ✓ Proposed labeling - 5 copies (label # R0803010)
- ✓ Form 8570-27, Formulator's Exemption Statement for 50% quat
- ✓ Form 8570-27, Formulator's Exemption Statement for 80% quat
- ✓ Form 8570-4, Confidential Statements of Formula – Basic & A01; 1 original + 2 copies
- ✓ Form 8570-34, Certification with Respect to Citation of Data for end-use product (EUP)
- ✓ Form 8570-35, Data Matrix (Agency Internal Use Copy) for EUP
- ✓ Form 8570-35, Data Matrix (Public File Copy) for EUP
- ✓ Form 8570-34, Certification with Respect to Citation of Data for Active Ingredient (AI) ethanol
- ✓ Form 8570-35, Data Matrix (Agency Internal Use Copy) for AI ethanol

c/o PS&RC
P.O. Box 493
Pleasanton, CA
94566-0803

(925) 425-6842
Fax: (925) 425-4496

- ✓ Form 8570-35, Data Matrix (Public File Copy) for AI ethanol
- ✓ Waiver Requests for EUP
- ✓ Transmittal document

All submitted efficacy studies were conducted using formula F2008.0034, which uses a lower purity source of ethanol (96% vs. 99.6%). The exact formula is listed in the product chemistry volume. We are citing the toxicity data from EPA Reg. No. 5813-67; (F1998.0045, samples 98-032 and 98-032A). The formula is enclosed in the product chemistry package, and it is the same as the basic formula for Clorox® 409-R. Additionally, we are using the same precautionary text as 5813-67.

We enclose an extra copy of both the cover letter and the transmittal document for all submitted studies.

We request a copy of the product chemistry efficacy Data Evaluation Records (DERs) to be included with the Agency's response to this letter.

We believe that the following pesticide registration service fee information applies:

- Category: A540 - This is a new end use product; FIFRA §2(mm) uses only
- Fee amount: \$4,410.00
- Decision time: 4 months

Thank you for your help in the timely review of this application. If you have any questions, please call me at 925 425-6842 or Jamie Quon at 925-425-6292.

Sincerely,

J. Evelyn Lawson

J. Evelyn Lawson
Senior Regulatory Information Scientist

Phone: (925) 425-6842

Fax: (925) 425-4496

Email: CTCPSERC@clorox.com

TRANSMITTAL DOCUMENT

1. Name and address of submitter

Clorox Professional Products Company
c/o PS&RC
P.O. Box 493
Pleasanton, CA 94566-0803
Attention: J. Evelyn Lawson

2. Regulatory action in support of which this package is submitted

Carb, EPA Reg. No. 67619-*to be assigned*
Product chemistry and efficacy data to support new registration application

3. Transmittal date

March 6, 2009

4. Submitted studies

Vol. II - Product Chemistry - Carb
EPA Reg. No. 67619-*to be assigned*
Series 830

MRID assigned: 47696801

Vol. III - AOAC Germicidal Spray Test for *Trichophyton mentagrophytes*, ATCC 9533, 810.2100 (c), (d), (e), 320-474

MRID assigned: 47696802

Vol. IV - AOAC Germicidal Spray Test Supplemental for *Acinetobacter baumannii*, ATCC 15308, 180.2100 (c),(d),(e), 320-475

MRID assigned: 47696803

Vol. V- AOAC Germicidal Spray Test Supplemental for Hospital-Associated Methicillin-Resistant *Staphylococcus aureus*, Genotype 100 (HA-MRSA 100), NRS382, Clinical Isolate 08009, 180.2100 (c),(d),(e), 320-476

MRID assigned: 47696804

Vol. VI - AOAC Germicidal Spray Test Supplemental for Hospital-Associated Methicillin-Resistant *Staphylococcus aureus*, Genotype 200 (HA-MRSA 200), NRS383, Clinical Isolate 08010, 180.2100 (c),(d),(e), 320-477

MRID assigned: 47696805

Vol. VII - AOAC Germicidal Spray Test Supplemental for Community-Associated Methicillin-Resistant *Staphylococcus aureus*, Genotype 300 (CA-MRSA 300); Clinical Isolate 08001, 180.2100 (c),(d),(e), 320-478

MRID assigned: 47696806

Vol. VIII - AOAC Germicidal Spray Test Supplemental for *Escherichia coli* O157:H7, ATCC 35150, 180.2100 (c),(d),(e), 320-480

MRID assigned: 47696807

Vol. IX - AOAC Germicidal Spray Test Supplemental for Extended Spectrum Beta Lactamase (ESBL) producing *Escherichia coli* (ESBL producing *E. coli*), ATCC BAA-196 180.2100 (c),(d),(e), 380-481

MRID assigned: 47696808

Vol. X - AOAC Germicidal Spray Test Supplemental for Methicillin-Resistant *Staphylococcus aureus* (MRSA), ATCC 33591, 180.2100 (c),(d),(e), 320-483

MRID assigned: 47696809

Vol. XI - AOAC Germicidal Spray Test Supplemental for Vancomycin-resistant *Enterococcus faecalis*, ATCC 51299 180.2100 (c),(d),(e), 320-487

MRID assigned: 47696810

Vol. XII - AOAC Germicidal Spray Test for Healthcare - *Staphylococcus aureus* (ATCC 6538), *Pseudomonas aeruginosa* (ATCC 15442), *Salmonella enterica* (ATCC 10708), 180.2100 (c), (d), (e), 320-490

MRID assigned: 47696811

Vol. XIII - Virucidal Effectiveness Test for Avian Influenza virus (H5N1) (NIBRG-14), 810.2100 (g), 320-491

MRID assigned: 47696812

Vol. XIV - Initial Virucidal Effectiveness Test for Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus), 810.2100 (g), 320-494

MRID assigned: 47696813

Vol. XV - Virucidal Effectiveness Test for Human Influenza A virus, 180.2100 (g), 320-496

MRID assigned: 47696814

Vol. XVI - Virucidal Effectiveness Test for Respiratory Syncytial Virus, ATCC VR-26, 810.2100 (g), 320-497

MRID assigned: 47696815

Vol. XVII - Confirmatory Virucidal Effectiveness Test for Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus), 810.2100 (g), 320-501

MRID assigned: 47696816

Vol. XVIII - Virucidal Effectiveness Test for Rhinovirus 39, ATCC VR-340, 810.2100 (g), 320-502

MRID assigned: 47696817

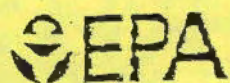
Vol. XIX - Virucidal Effectiveness Test for Poliovirus Type 1 ATCC VR-1562, 810.2100 (g), 320-515

MRID assigned: 47696818

Company Official: J. Evelyn Lawson

J. Evelyn Lawson
Signature

Company Name: Clorox Professional Products Company
Company Contact: J. Evelyn Lawson
Phone: (925) 425-6842
Fax: (925) 425-4496
E-mail: CTCPSERC@Clorox.com



ADMINISTRATIVE NO(S): 67619-ER

PM: 33

CHEMICAL NO.: _____

The jacket for this action can be
requested through the JACKETS system.

FEE FOR SERVICE

**Study Information For
Product Registration - Section 3
5813-67**

MRID	Citation	Receipt Date
44636900	The Clorox Company (1998) Submission of Product Chemistry, Toxicity, and Efficacy Data in Support of the Application for Registration of Clorox 409-R. Transmittal of 34 Studies.	21-Aug-1998
44636901	Lawson, J. (1998) Product Chemistry-Clorox 409-R: Lab Project Number: 5813-EX-107: 5813-EX-111. Unpublished study prepared by Clorox Technical Company. 76 p. {OPPTS 830.1650, 830.1670, 830.1750, 830.1800, 830.6302, 830.6303, 830.6304, 830.6315, 830.6317, 830.6320, 830.7000, 830.7100, 830.7300}	21-Aug-1998
44636902	Glaza, S. (1998) Acute Oral Toxicity Study of 98-032 in Rats: Final Report: Lab Project Number: COVANCE 80402309: TP3013. Unpublished study prepared by Covance Laboratories Inc. 32 p.	21-Aug-1998
44636903	Glaza, S. (1998) Acute Dermal Toxicity Study of 98-032 in Rabbits: Final Report: Lab Project Number: COVANCE 80402310: TP3016. Unpublished study prepared by Covance Laboratories Inc. 39 p.	21-Aug-1998
44636904	Sullivan, D.; Rajendran, N. (1998) Acute Nose-Only Inhalation Toxicity Study of Clorox Sample 98-032 in Rats (Limit Test): Lab Project Number: L08731 SN1. Unpublished study prepared by IIT Research Institute. 32 p.	21-Aug-1998
44636905	Glaza, S. (1998) Primary Eye Irritation Study of 98-032 in Rabbits: Final Report: Lab Project Number: COVANCE 80402312: TP3015. Unpublished study prepared by Covance Laboratories Inc. 35 p.	21-Aug-1998
44636906	Glaza, S. (1998) Primary Dermal Irritation Study of 98-032 in Rabbits: Final Report: Lab Project Number: COVANCE 80402311: TP3014. Unpublished study prepared by Covance Laboratories Inc. 30 p.	21-Aug-1998
44636907	Sorenson, S. (1998) Dermal Sensitization Study of 98-032 in Guinea Pigs-Closed Patch Technique: Final Report: Lab Project Number: COVANCE 80405925: COVANCE 80100453: TP2008. Unpublished study prepared by Covance Laboratories Inc. 75 p.	21-Aug-1998
44636908	Snyder, A. (1998) Germicidal Spray Products: F1998.0045: Final Study Report: Lab Project Number: 5535: CX040298.GS8. Unpublished study prepared by ViroMed Laboratories, Inc. 8 p.	21-Aug-1998
44636909	Snyder, A. (1998) Germicidal Spray Products: F1998.0045: Final Study Report: Lab Project Number: 5534: CX040298.GS9. Unpublished study prepared by ViroMed Laboratories, Inc. 8 p.	21-Aug-1998
44636910	Snyder, A. (1998) Germicidal Spray Products: F1998.0045: Final Study Report: Lab Project Number: 5540: CX040298.GS3. Unpublished study prepared by ViroMed Laboratories, Inc. 9 p.	21-Aug-1998

44636911	Snyder, A. (1998) Germicidal Spray Products: F1998.0046: Final Study Report: Lab Project Number: 5542: CX040298.GS1. Unpublished study prepared by ViroMed Laboratories, Inc. 9 p.	21-Aug-1998
44636912	Snyder, A. (1998) Germicidal Spray Products: F1998.0047: Final Study Report: Lab Project Number: 5541: CX040298.GS2. Unpublished study prepared by ViroMed Laboratories, Inc. 12 p.	21-Aug-1998
44636913	Snyder, A. (1998) Germicidal Spray Products: F1998.0045: Final Study Report: Lab Project Number: 5536: CX040298.GS. Unpublished study prepared by ViroMed Laboratories, Inc. 8 p.	21-Aug-1998
44636914	Snyder, A. (1998) Germicidal Spray Products: F1998.0045: Escherichia coli 0157.H7 (ATCC 35150): Final Study Report: Lab Project Number: 5539: CX040298.GS4. Unpublished study prepared by ViroMed Laboratories, Inc. 8 p.	21-Aug-1998
44636915	Snyder, A. (1998) Germicidal Spray Products: F1998.0045: Final Study Report: Lab Project Number: 5538: CX040298.GS5. Unpublished study prepared by ViroMed Laboratories, Inc. 8 p.	21-Aug-1998
44636916	Snyder, A. (1998) Germicidal Spray Products: F1998.0045: Final Study Report: Lab Project Number: 5537: CX040298.GS6. Unpublished study prepared by ViroMed Laboratories, Inc. 8 p.	21-Aug-1998
44636917	Snyder, A. (1998) Germicidal Spray Products: F1998.0045: Final Study Report: Lab Project Number: 5533: CX040298.GS10. Unpublished study prepared by ViroMed Laboratories, Inc. 8 p.	21-Aug-1998
44636918	Snyder, A. (1998) Fungicidal Germicidal Spray Products: F1998.0045: Final Study Report: Lab Project Number: 5531: CX040298.FUNG. Unpublished study prepared by ViroMed Laboratories, Inc. 8 p.	21-Aug-1998
44636919	Snyder, A. (1998) EPA Hard Surface Mildew-Fungistatic Test: F1998.0045: Final Study Report: Lab Project Number: 5530: CX040298.MILD. Unpublished study prepared by ViroMed Laboratories, Inc. 8 p.	21-Aug-1998
44636920	Ramm, K. (1998) Virucidal Efficacy of Disinfectants for Use on Inanimate Environmental Surfaces: Virus Poliovirus type 1: F1998.0045: Final Study Report: Lab Project Number: 4850: CX040298.PO1. Unpublished study prepared by ViroMed Laboratories, Inc. 11 p.	21-Aug-1998
44636921	Ramm, K. (1998) Virucidal Efficacy of Disinfectants for Use on Inanimate Environmental Surfaces Virus: Rotavirus: F1998.0045: Final Study Report: Lab Project Number: 4851: CX040298.ROT. Unpublished study prepared by ViroMed Laboratories, Inc. 11 p.	21-Aug-1998
44636922	Ramm, K. (1998) Virucidal Efficacy of Disinfectants for Use on Inanimate Environmental Surfaces Virus: Herpes simplex virus type 2: F1998.0045: Final Study Report: Lab Project Number: 5516: CX040298.HS2. Unpublished study prepared by ViroMed Laboratories, Inc. 11 p.	21-Aug-1998
	Ramm, K. (1998) Virucidal Efficacy of Disinfectants for Use on Inanimate Environmental Surfaces Virus: Rhinovirus type 37: F1998.0045: Final Study	21-

44636923	Report: Lab Project Number: 5517: CX040298.R37. Unpublished study prepared by ViroMed Laboratories, Inc. 11 p.	Aug-1998
44636924	Ramm, K. (1998) Virucidal Efficacy of Disinfectants for Use on Inanimate Environmental Surfaces Virus: Influenza virus type A2: F1998.0045: Final Study Report: Lab Project Number: 5518: CX040298.FLU. Unpublished study prepared by ViroMed Laboratories, Inc. 11 p.	21-Aug-1998
44636925	Ramm, K. (1998) Virucidal Efficacy of Disinfectants for Use on Inanimate Environmental Surfaces Virus: Echovirus type 11: F1998.0045: Final Study Report: Lab Project Number: 5519: CX040298.E11. Unpublished study prepared by ViroMed Laboratories, Inc. 11 p.	21-Aug-1998
44636926	Ramm, K. (1998) Virucidal Efficacy of Disinfectants for Use on Inanimate Environmental Surfaces Virus: Hepatitis A virus type 11: F1998.0045: Final Study Report: Lab Project Number: 5520: CX040298.HAV. Unpublished study prepared by ViroMed Laboratories, Inc. 11 p.	21-Aug-1998
44636927	Ramm, K. (1998) Virucidal Efficacy of Disinfectants for Use on Inanimate Environmental Surfaces Virus: Human Immunodeficiency Virus Type 1: F1998.0045: Final Study Report: Lab Project Number: CX040298.HIV: 5522. Unpublished study prepared by ViroMed Laboratories, Inc. 11 p.	21-Aug-1998
44636928	Ramm, K. (1998) Virucidal Efficacy of Disinfectants for Use on Inanimate Environmental Surfaces Virus: Adenovirus type 2: F1998.0045: Final Study Report: Lab Project Number: CX040298.AD2: 5511. Unpublished study prepared by ViroMed Laboratories, Inc. 11 p.	21-Aug-1998
44636929	Ramm, K. (1998) Virucidal Efficacy of Disinfectants for Use on Inanimate Environmental Surfaces Virus: Respiratory Syncytial Virus: F1998.0045: Final Study Report: Lab Project Number: CX040298.RSV: 5521. Unpublished study prepared by ViroMed Laboratories, Inc. 11 p.	21-Aug-1998
44636930	Okusu, K. (1998) Sanitizing Efficacy of Formula F1998.0045 Against Salmonella choleraesius: Final Report: Lab Project Number: ME-011. Unpublished study prepared by The Clorox Technical Center. 18 p.	21-Aug-1998
44636931	Okusu, K. (1998) Sanitizing Efficacy of Formula F1998.0045 Against Escherichia coli 0157:H7: Final Report: Lab Project Number: ME-013. Unpublished study prepared by The Clorox Technical Center. 18 p.	21-Aug-1998
44636932	Okusu, K. (1998) Sanitizing Efficacy of Formula F1998.0045 Against Staphylococcus aureus and Klebsiella pneumoniae: Final Report: Lab Project Number: ME-010. Unpublished study prepared by The Clorox Technical Center. 29 p.	21-Aug-1998
44636933	Okusu, K. (1998) Sanitizing Efficacy of Formula F1998.0046 Against Staphylococcus aureus and Klebsiella pneumonia (sic): Final Report: Lab Project Number: ME-009. Unpublished study prepared by The Clorox Technical Center. 18 p.	21-Aug-1998
44636934	Okusu, K. (1998) Sanitizing Efficacy of Formula F1998.0047 Against Staphylococcus aureus and Klebsiella pneumoniae: Final Report: Lab Project	21-Aug-

	Number: ME-008. Unpublished study prepared by The Clorox Technical Center. 18 p.	1998
44712600	Clorox Services Company (1998) Submission of Product Chemistry Data in Support of the Application for Registration of Clorox 409-R. Transmittal of 1 Study.	10-Dec-1998
44712601	Pappalardo, P. (1998) Storage Stability/Corrosion Characteristics of Clorox Formula F1998.0045: Interim Report: Lab Project Number: 5813-EX-107. Unpublished study prepared by The Clorox Technical Center. 30 p. {OPPTS 830.6320, 830.6317}	10-Dec-1998
44963400	The Clorox Company (1999) Submission of Efficacy Data and Toxicity Data in Support of the Registration of Clorox 409R and CPPC Spray 1. Transmittal of 30 Studies.	28-Oct-1999
44963401	Onstad, B. (1999) Fungicidal Germicidal Spray Products in F1998.0045 (<i>Candida albicans</i> (ATCC 10231)): Final Study Report: Lab Project Number: 6938: CX120498.GS2. Unpublished study prepared by ViroMed Biosafety Laboratories. 10 p.	28-Oct-1999
44963402	Onstad, B. (1999) AOAC Tuberculocidal Activity of Disinfectants (<i>Mycobacterium bovis</i> --BCG (OT 105401)): Final Study Report: Lab Project Number: 5532: CX040298.TB. Unpublished study prepared by ViroMed Biosafety Laboratories. 13 p.	28-Oct-1999
44963403	Onstad, B. (1999) Germicidal Spray Products F1998.0045 (<i>Mycobacterium smegmatis</i> (ATCC 14468)): Final Study Report: Lab Project Number: 6939: CX120498.GS4. Unpublished study prepared by ViroMed Biosafety Laboratories. 9 p.	28-Oct-1999
44963404	Onstad, B. (1999) Germicidal Spray Products F1998.0045 (<i>Corynebacterium diphtheria</i> ATCC 11913)): Final Study Report: Lab Project Number: 6954: CX120498.GS3. Unpublished study prepared by ViroMed Biosafety Laboratories. 9 p.	28-Oct-1999
44963405	Onstad, B. (1999) Germicidal Spray Products F1998.0045 (<i>Enterobacter aerogenes</i> (ATCC 15038), <i>Shigella dysenteriae</i> (ATCC 13313), <i>Serratia marcescens</i> (ATCC 14746)): Final Study Report: Lab Project Number: 6958: CX120498.GS8. Unpublished study prepared by ViroMed Biosafety Laboratories. 10 p.	28-Oct-1999
44963406	Onstad, B. (1999) Germicidal Spray Products F1998.0045 (<i>Salmonella choleraesuis</i> serotype enteritidis (ATCC 4931), <i>Salmonella choleraesuis</i> paratyphi B (schmottmuelleri) (ATCC 8759)): Final Study Report: Lab Project Number: 6957: CX120498.GS7. Unpublished study prepared by ViroMed Biosafety Laboratories. 9 p.	28-Oct-1999
44963407	Ramm, K. (1999) Virucidal Efficacy of Disinfectants for Use on Inanimate Environmental Surfaces: Virus: Influenza virus type B: Final Study Report: Lab Project Number: 6895: CX012099.FLUB. Unpublished study prepared by ViroMed Biosafety Laboratories. 11 p.	28-Oct-1999

44963408	Ramm, K. (1999) Virucidal Efficacy of Disinfectants for Use on Inanimate Environmental Surfaces: Virus: Cytomegalovirus: Final Study Report: Lab Project Number: 6668: CX120498.CMV. Unpublished study prepared by ViroMed Biosafety Laboratories. 11 p.	28-Oct-1999
44963409	Ramm, K. (1999) Virucidal Efficacy of Disinfectants for Use on Inanimate Environmental Surfaces: Virus: Herpes simplex virus type 1: Final Study Report: Lab Project Number: 6666: CX120498.HS1. Unpublished study prepared by ViroMed Biosafety Laboratories. 11 p.	28-Oct-1999
44963410	Ramm, K. (1999) Virucidal Efficacy of Disinfectants for Use on Inanimate Environmental Surfaces: Virus: Vaccinia virus: Final Study Report: Lab Project Number: 6667: CX120498.VAC. Unpublished study prepared by ViroMed Biosafety Laboratories. 11 p.	28-Oct-1999
44963411	Onstad, B. (1999) Germicidal Spray Products F1998.0045 (Staphylococcus aureus--Gentamicin Resistant (ATCC 33594), Enterococcus faecalis (ATCC 29212)): Final Study Report: Lab Project Number: 6937: CX120498.GS9. Unpublished study prepared by ViroMed Biosafety Laboratories. 15 p.	28-Oct-1999
44963412	Onstad, B. (1999) Fungicidal Germicidal Spray Products F1998.0045 (Penicillium notatum (ATCC 9178), Trichoderma viridae (ATTC 8678), Cladosporium herbarum (ATTC 60531), Alternaria alternata (ATTC 13963), Fusarium solani (ATTC 36031), Stachybotrys chartarum (ATTC 66239)): Final Study Report: Lab Project Number: 7485: CX042399.FGS. Unpublished study prepared by ViroMed Biosafety Laboratories. 14 p.	28-Oct-1999
44963413	Onstad, B. (1999) Fungicidal Germicidal Spray Products F1998.0045 (Campylobacter jejuni (ATTC 29428)): Final Study Report: Lab Project Number: 6953: CX120498.GS1. Unpublished study prepared by ViroMed Biosafety Laboratories. 13 p.	28-Oct-1999
44963414	Onstad, B. (1999) Germicidal Spray Products for F1998.0045 (Proteus vulgaris (ATTC 9920)): Final Study Report: Lab Project Number: 7367: CX041599.GS. Unpublished study prepared by ViroMed Biosafety Laboratories. 12 p.	28-Oct-1999
44963415	Johnson, D. (1999) Clorox Formula F1999.0160--Sanitizer Efficacy (Staphylococcus aureus (ATTC 6538), Klebsiella pneumoniae (ATTC 4352)): Final Report: Lab Project Number: ME-015. Unpublished study prepared by The Clorox Technical Center. 20 p.	28-Oct-1999
44963416	Quon, J. (1999) Clorox Formula F1999.0241--Sanitizer Efficacy (Staphylococcus aureus (ATTC 6538), Klebsiella pneumoniae (ATTC 4352)): Final Report: Lab Project Number: ME-017. Unpublished study prepared by The Clorox Technical Center. 20 p.	28-Oct-1999
44963417	Quon, J. (1999) Clorox Formula F1999.0242--Sanitizer Efficacy (Staphylococcus aureus (ATTC 6538), Klebsiella pneumoniae (ATTC 4352)): Final Report: Lab Project Number: ME-018. Unpublished study prepared by The Clorox Technical Center. 20 p.	28-Oct-1999
44963418	Quon, J. (1999) Clorox Formula F1999.0200--Sanitizer Efficacy (Staphylococcus aureus (ATTC 6538), Klebsiella pneumoniae (ATTC 4352)): Final Report: Lab Project Number: ME-019. Unpublished study prepared by The Clorox Technical Center. 20 p.	28-Oct-1999

	Final Report: Lab Project Number: ME-016. Unpublished study prepared by The Clorox Technical Center. 21 p.	1999
44963419	Osborne, C. (1999) Clorox Formula F1999.0045--Sanitizer Test for Non-Food Contact Surfaces: <i>Proteus mirabilis</i> : Final Report: Lab Project Number: 320-109. Unpublished study prepared by MicroBioTest, Inc. 25 p.	28-Oct-1999
44963420	Osborne, C. (1999) Clorox Formula F1999.0045--Sanitizer Test for Non-Food Contact Surfaces: <i>Aspergillus niger</i> : Final Report: Lab Project Number: 320-110. Unpublished study prepared by MicroBioTest, Inc. 25 p.	28-Oct-1999
44963421	Osborne, C. (1999) Clorox Formula F1999.0045--Sanitizer Test for Non-Food Contact Surfaces: <i>Klebsiella pneumoniae</i> : Final Report: Lab Project Number: 320-111. Unpublished study prepared by MicroBioTest, Inc. 25 p.	28-Oct-1999
44963422	Osborne, C. (1999) Clorox Formula F1999.0045--Sanitizer Test for Non-Food Contact Surfaces: <i>Staphylococcus aureus</i> : Final Report: Lab Project Number: 320-112. Unpublished study prepared by MicroBioTest, Inc. 25 p.	28-Oct-1999
44963423	Osborne, C. (1999) Clorox Formula F1999.0045--Virucidal Effectiveness Test: Rotavirus Wa: Final Report: Lab Project Number: 320-114. Unpublished study prepared by MicroBioTest, Inc. 10 p.	28-Oct-1999
44963424	Osborne, C. (1999) Clorox Formula F1999.0242--AOAC Germicidal Spray Test Confirmatory: Final Report: Lab Project Number: 320-124. Unpublished study prepared by MicroBioTest, Inc. 26 p.	28-Oct-1999
44963425	Osborne, C. (1999) Clorox Formula F1999.0241--AOAC Germicidal Spray Test Confirmatory: Final Report: Lab Project Number: 320-123. Unpublished study prepared by MicroBioTest, Inc. 26 p.	28-Oct-1999
44963426	Osborne, C. (1999) Clorox Formula F1999.0200--AOAC Germicidal Spray Test Confirmatory: Final Report: Lab Project Number: 320-125. Unpublished study prepared by MicroBioTest, Inc. 27 p.	28-Oct-1999
44963427	Osborne, C. (1999) Clorox Formula F1999.0160--AOAC Germicidal Spray Test Confirmatory: Final Report: Lab Project Number: 320-126. Unpublished study prepared by MicroBioTest, Inc. 25 p.	28-Oct-1999
44963428	Osborne, C. (1999) Clorox Formula F1999.0245--AOAC Germicidal Spray Test Confirmatory: Final Report: Lab Project Number: 320-127. Unpublished study prepared by MicroBioTest, Inc. 26 p.	28-Oct-1999
44963429	Osborne, C. (1999) Clorox Formula F1999.0045--Virucidal Effectiveness Test: Rhinovirus 39: Final Report: Lab Project Number: 320-113. Unpublished study prepared by MicroBioTest, Inc. 23 p.	28-Oct-1999
44963430	Morris, T.; Buehler, E. (1999) Repeated Insult Patch Test (Modified Draize Procedure): Revised Final Report I: Lab Project Number: 98-101166-70(A). Unpublished study prepared by Hill Top Research, Inc. 48 p.	28-Oct-1999
44996600	Clorox Services Company (1999) Submission of Efficacy Data in Support of the Registration of Clorox 409 R. Transmittal of 2 Studies.	28-Oct-1999

44996601	Osborne, C. (1999) AOAC Germicidal Spray Test Confirmatory (Clorox 409R): Final Report: Lab Project Number: 320-108. Unpublished study prepared by MicroBiotest, Inc. 25 p.	28-Oct-1999
44996602	Quon, J. (1999) Clorox Formula F1999.0245--Sanitizer Efficacy. Unpublished study prepared by The Clorox Technical Center. 21 p.	28-Oct-1999
45192000	The Clorox Company (2000) Submission of Toxicity Data in Support of the FIFRA 6(a)(2) Requirements for Clorox 409-R. Transmittal of 3 Studies.	18-Aug-2000
45192001	Rhodes, J. (2000) Acute Toxicity of P198 to the Rainbow Trout, <i>Oncorhynchus mykiss</i> , Determined Under Static Test Conditions: Lab Project Number: 45715. Unpublished study prepared by ABC Laboratories, Inc. 22 p. {OPPTS 850.1075}	18-Aug-2000
45192002	Rhodes, J. (2000) Acute Toxicity of P198 to the Bluegill Sunfish, <i>Lepomis macrochirus</i> , Determined Under Static Test Conditions: Lab Project Number: 45714. Unpublished study prepared by ABC Laboratories, Inc. 22 p. {OPPTS 850.1075}	18-Aug-2000
45192003	Rhodes, J. (2000) Acute Toxicity of P198 to the African Clawed Frog, <i>Xenopus laevis</i> , Determined Under Static Test Conditions: Lab Project Number: 45716. Unpublished study prepared by ABC Laboratories, Inc. 22 p.	18-Aug-2000
45354300	The Clorox Company (2001) Submission of Efficacy Data in Support of the Registration of Clorox 409R. Transmittal of 4 Studies.	16-Mar-2001
45354301	Maczulak, A. (2001) Residual Self-Sanitizing Efficacy of F2000.0334 Against <i>K. pneumoniae</i> ATCC 4352 on Hard Nonporous Surfaces: Final Report: Lab Project Number: ME-037. Unpublished study prepared by The Clorox Technical Center. 27 p.	16-Mar-2001
45354302	Maczulak, A. (2001) Residual Self-Sanitizing Efficacy of F2000.0334 Against <i>S. aureus</i> ATCC 6538 on Hard Nonporous Surfaces: Final Report: Lab Project Number: ME-039. Unpublished study prepared by The Clorox Technical Center. 27 p.	16-Mar-2001
45354303	Maczulak, A. (2001) Residual Self-Sanitizing Efficacy of F1998.0047 Against <i>K. pneumoniae</i> ATCC 4352 on Hard Nonporous Surfaces: Final Report: Lab Project Number: ME-040. Unpublished study prepared by The Clorox Technical Center. 26 p.	16-Mar-2001
45354304	Maczulak, A. (2001) Residual Self-Sanitizing Efficacy of F1998.0047 Against <i>S. aureus</i> ATCC 6538 on Hard Nonporous Surfaces: Final Report: Lab Project Number: ME-041. Unpublished study prepared by The Clorox Technical Center. 26 p.	16-Mar-2001
45551300	The Clorox Company (2001) Submission of Efficacy Data in Support of the Registration of Clorox 409-R. Transmittal of 5 Studies.	03-Dec-2001
45551301	Finley, M. (2001) Residual Self-Sanitizing Activity of Dried Chemical Residues on Hard Nonporous Surfaces: Final Study Report: Lab Project Number: 11505: CX03073001.RES.1. Unpublished study prepared by	03-Dec-2001

	ViroMed Laboratories, Inc. 19 p.	
45551302	Finley, M. (2001) Residual Self-Sanitizing Activity of Dried Chemical Residues on Hard Nonporous Surfaces: Final Study Report: Lab Project Number: 11506: CX03073001.RES.2. Unpublished study prepared by ViroMed Laboratories, Inc. 22 p.	03-Dec-2001
45551303	Finley, M. (2001) Residual Self-Sanitizing Activity of Dried Chemical Residues on Hard Nonporous Surfaces: Final Study Report: Lab Project Number: 11507: CX03073001.RES.3. Unpublished study prepared by ViroMed Laboratories, Inc. 23 p.	03-Dec-2001
45551304	Finley, M. (2001) Residual Self-Sanitizing Activity of Dried Chemical Residues on Hard Nonporous Surfaces: F2000.0334: Final Study Report: Lab Project Number: 11808: CX03083001.RES.1. Unpublished study prepared by ViroMed Laboratories, Inc. 19 p.	03-Dec-2001
45551305	Finley, M. (2001) Residual Self-Sanitizing Activity of Dried Chemical Residues on Hard Nonporous Surfaces: Final Study Report: Lab Project Number: 11809: CX03083001.RES.1. Unpublished study prepared by AppTec Laboratory Services. 19 p.	03-Dec-2001
45603500	The Clorox Company (2002) Submission of Efficacy Data in Support of the Registration of Clorox 409-R. Transmittal of 1 Study.	12-Feb-2002
45603501	Price, J. (2002) Residual Self-Sanitizing Efficacy: (Clorox 409-R): Final Study Report: Lab Project Number: 12314: CX03101601.RES. Unpublished study prepared by AppTec Laboratory Services. 17 p.	12-Feb-2002
45689000	Clorox Company (2002) Submission of Product Chemistry Data in Support of the Registration of Clorox 409-R. Transmittal of 1 Study.	06-Jun-2002
45689001	Gossett, E. (2002) Storage Stability/Corrosion Characteristics of Clorox Formula F1998.0045: Final Report: Lab Project Number: 5813-EX-107. Unpublished study prepared by Clorox Technical Center. 28 p. {OPPTS 830.6317, 830.6320}	06-Jun-2002
46077400	The Clorox Company (2003) Submission of Efficacy Data in Support of the Amended Registration of Clorox 409-R. Transmittal of 1 Study.	23-Sep-2003
46077401	Ramm, K. (2003) Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces: Human Coronavirus: Clorox Disinfecting Spray: Final Study Report. Project Number: A01393, CX05041603/HCOR. Unpublished study prepared by ATS Labs. 14 p.	23-Sep-2003
47603800	The Clorox Company Clorox Professional Products Co. (2008) Submission of Product Chemistry Data in Support of the Amended Registrations of Spruce-Ups, Formula 409 Disinfectant Bathroom Cleaner I, Clorox Cleaner, Formula 409 Disinfectant Bathroom Cleaner, Entire, Lemon-Sol Cleaner-Disinfectant, Lemon-Sol Household Cleaner & Disinfectant, Pine-Sol Household Cleaner, Pine Sol Household Cleaner Disinfectant, Pine-Sol Multipurpose Cleaner Disinfectant, Pine-Sol Presto, Pine-Sol Multi-Purpose Spray Cleaner, Pine-Sol Spray 18488, Pine-Sol Spray 18864, Pine-Sol pray 19054, Clorox RTU-C,	24-Nov-2008

	Clorox Disinfecting Spray III, Clorox 409-P, Clorox 409-R, Clorox Everest, Clorox TLC, CDQ, X-Men, Julia, Gemstone, Stripes, CPPC 409, CPPC Spray 1, CPPC PS Spray 19054, PJW-622 and CPPC Everest. Transmittal of 1 Study.	
47603801	Brutschy, M. (2008) Product Chemistry - Spruce-Ups: Enforcement Analytical Method. Project Number: 240/114/01, 001/030/02. Unpublished study prepared by The Clorox Company. 25 p.	24-Nov-2008
47735600	The Clorox Company (2009) Submission of Product Chemistry Data in Support of the Registration of Clorox 409-R. Transmittal of 2 Studies.	30-Mar-2009
47735601	Parent, D. (2009) Clorox 409-R: Product Chemistry: Enforcement Analytical Method for Quaternary Ammonium Salts in Aerosol Products. Project Number: 001/125/02, 001/183/00. Unpublished study prepared by Clorox Co. 21 p.	30-Mar-2009
47735602	Nashed, H.; Parent, D. (2009) Clorox 409-R: Product Chemistry: Enforcement Analytical Method for Ethanol in Aerosol Products. Project Number: 001/125/02, 001/121/04. Unpublished study prepared by Clorox Co. 19 p.	30-Mar-2009
Total Rows: 97		



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number
304092

Application for Pesticide - Section I

1. Company/Product Number 67619-ER	2. EPA Product Manager Marshall Swindell	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Carb	PM# 33	
5. Name and Address of Applicant (Include ZIP Code) Clorox Professional Products Company; c/o PS&RC P.O. Box 493 Pleasanton, CA 94566-0803 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input checked="" type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

In response to the Agency's request, we are submitting supplemental bridging data to compare the dispensed amounts of this registration, Brac (EPA File Symbol 5813-OT), and Clorox® 409-R, EPA Reg. No. 5813-67. The original primary eye irritation data was submitted to support the registration application for Clorox® 409-R, and was assigned MRID 44636905. We are submitting 3 copies of the data.

Please see enclosed cover letter for more details.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
3. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name J. Evelyn Lawson	Title Senior Regulatory Information Scientist	Telephone No. (Include Area Code) (925) 425-6842 9254256842
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
Signature 		
3. Title Senior Regulatory Information Scientist		
Typed Name J. Evelyn Lawson		5. Date May 28, 2009

10/2/2

N. 1011

1-148

TASK ASSIGNMENT FORM (TAF)
Antimicrobials Division/OPP--Effective June 5, 1998

PO: Cletis Mixon

A -- Completed by Reviewer/Team Leader (check (☑) or complete appropriate boxes)

RASSB__	PSB <u>X</u>	Product Acute Toxicology__	Human Toxicology__	Product Chemistry__	Efficacy <u>X</u>
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Chemical or EPA Reg. No.: 67619-ER	DP Barcode: 363950
------------------------------------	--------------------

Type: Registration <u>X</u>	RED__	Prod. Reregistration__	Special Project__	Lit. Search__	Other:__
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Due Date: <u>5/26/09</u>	AD Contact: Wallace Powell	Reviewer: _____	Team Leader: Tajah Blackburn <u>X</u> Karen Hicks__
--------------------------	----------------------------	-----------------	--

revised 5/28/09

B -- Completed by Reviewer/Team Leader

C -- Completed By Contractor

Study/Action	MRID	GDLN #	Gov't Est Hrs	Tech Hrs. Spent
Test Organism: Trichophyton mentagrophytes, ATCC 9533	476968-02	91-2		
Test Organism: Acinetobacter baumannii, ATCC 15308	476968-03	91-2		
Test Organism: Hospital-Associated Methicillin-Resistant Staphylococcus aureus, Genotype USA 100 (HA-MRSA 100), NRS382, Clinical Isolate	476968-4	91-2		
Test Organism: Hospital-Associated Methicillin-Resistant Staphylococcus aureus, Genotype USA 200 (HA-MRSA 200), NRS383, Clinical Isolate 08010	476968-05	91-2		
Test Organism: Community-Associated Methicillin-Resistant Staphylococcus aureus, Genotype 300 (CA-MRSA 300); Clinical Isolate 08001	476968-06	91-2		
Test Organism: Escherichia coli	476968-07	91-2		
Test Organism: Extended spectrum B-lactamase Escherichia coli	476968-08	91-2		
Test Organism: Methicillin-Resistant Staphylococcus aureus	476968-09	91-2		
Test Organism: Vancomycin-resistant Enterococcus faecalis	476968-10	91-2		
Test Organisms: Staphylococcus aureus, Pseudomonas aeruginosa, Salmonella enterica	476968-11	91-2		
Virucidal Effectiveness Test Avian Influenza virus	476968-12	91-2		
Initial Virucidal Effectiveness Test Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus)	476968-13	91-2		
Virucidal Effectiveness Test Human Influenza A virus	476968-14	91-2		
Virucidal Effectiveness Test Respiratory Syncytial Virus	476968-15	91-2		

1-148 (pg. 2)

A -- Completed by Reviewer/Team Leader (check (☑) or complete appropriate boxes)

RASSB ___	PSB <u>X</u>	Product Acute Toxicology ___	Human Toxicology ___	Product Chemistry ___	Efficacy <u>X</u>
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Chemical or EPA Reg. No.: 67619-ER				DP Barcode: 363950	
Type: Registration <u>X</u>	RED___	Prod. Reregistration___	Special Project___	Lit. Search___	Other:___
Due Date:	AD Contact: Wallace Powell		Reviewer:	Team Leader: Tajah Blackburn <u>X</u> Karen Hicks___	

[illegible]

331

D -- Completed by WAM/PO

Action No:

1-148

Date Sent:

WAM/PO: Wallace Powell / Cletis Mixon

Branch Chief (For Special Projects):

E -- Completed by Contractor

Review Completed

Jenny Uz, CSC Program Manager

Date Delivered:

5/28/09
5/26/09

Delivery:

Courier X

Fed Ex

Electronic

Other

Principal Reviewers:

CSC's Elise Baker

Issues/Comments for Secondary Reviewer Attention:

See attached page_

F -- Completed by Secondary Reviewer(Antimicrobial Division)

Minor Changes/Resolution with Contractor

Major Changes/Resolution with Contractor

Secondary Review Hours

Accepted

Unacceptable

Reviewer Comments Recommendations:

See attached page_



March 5, 2009

Marshall Swindell, Product Manager 33
Document Processing Desk (REGFEE)
Office of Pesticide Programs
U.S. Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Subject: New Product Application for Carb, EPA Reg. No. 67619-*to be assigned*
OPP 304064

Dear Mr. Swindell:

Clorox Professional Products Company is submitting a new product application for Carb, which is similar to Clorox® 409-R, EPA Reg. No. 5813-67. All active ingredients in Carb are the same as Clorox® 409-R, with 4 out of 5 active ingredients having the same percentage; ethanol is lower (now 58.04% vs. 65% in Clorox® 409-R). The ethanol content is being lowered to comply with California VOC (Volatile Organic Compound) regulations.

The following volumes are enclosed – Volume I (administrative materials – one copy) and 3 copies each of Volumes II through XIX. These volumes are product chemistry (Volume II); the remaining volumes are efficacy studies.

Volume I contains the following:

- ✓ Form 8570-1, Application for Pesticide Registration (OPP 304064) (+ 2 copies)
- ✓ PRIA pre-payment fee (pay.gov Tracking ID is 24VA7DB2)
- ✓ Proposed labeling - 5 copies (label # R0803010)
- ✓ Form 8570-27, Formulator's Exemption Statement for 50% quat
- ✓ Form 8570-27, Formulator's Exemption Statement for 80% quat
- ✓ Form 8570-4, Confidential Statements of Formula – Basic & A01; 1 original + 2 copies
- ✓ Form 8570-34, Certification with Respect to Citation of Data for end-use product (EUP)
- ✓ Form 8570-35, Data Matrix (Agency Internal Use Copy) for EUP
- ✓ Form 8570-35, Data Matrix (Public File Copy) for EUP
- ✓ Form 8570-34, Certification with Respect to Citation of Data for Active Ingredient (AI) ethanol
- ✓ Form 8570-35, Data Matrix (Agency Internal Use Copy) for AI ethanol

c/o PS&RC
P.O. Box 493
Pleasanton, CA
94566-0803

(925) 425-6842
Fax: (925) 425-4496

TRANSMITTAL DOCUMENT

1. Name and address of submitter

Clorox Professional Products Company
c/o PS&RC
P.O. Box 493
Pleasanton, CA 94566-0803
Attention: J. Evelyn Lawson

2. Regulatory action in support of which this package is submitted

Carb, EPA Reg. No. 67619-*to be assigned*
Product chemistry and efficacy data to support new registration application

3. Transmittal date

March 6, 2009

4. Submitted studies

Vol. II - Product Chemistry - Carb
EPA Reg. No. 67619-*to be assigned*
Series 830

MRID assigned: 47696801

Vol. III - AOAC Germicidal Spray Test for *Trichophyton mentagrophytes*, ATCC 9533, 810.2100 (c), (d), (e), 320-474

MRID assigned: 47696802

Vol. IV - AOAC Germicidal Spray Test Supplemental for *Acinetobacter baumannii*, ATCC 15308, 180.2100 (c),(d),(e), 320-475

MRID assigned: 47696803

Vol. V- AOAC Germicidal Spray Test Supplemental for Hospital-Associated Methicillin-Resistant *Staphylococcus aureus*, Genotype 100 (HA-MRSA 100), NRS382, Clinical Isolate 08009, 180.2100 (c),(d),(e), 320-476

MRID assigned: 47696804

Vol. VI - AOAC Germicidal Spray Test Supplemental for Hospital-Associated Methicillin-Resistant *Staphylococcus aureus*, Genotype 200 (HA-MRSA 200), NRS383, Clinical Isolate 08010, 180.2100 (c),(d),(e), 320-477

MRID assigned: 47696805

Vol. VII - AOAC Germicidal Spray Test Supplemental for Community-Associated Methicillin-Resistant *Staphylococcus aureus*, Genotype 300 (CA-MRSA 300); Clinical Isolate 08001, 180.2100 (c),(d),(e), 320-478

MRID assigned: 47696806

Vol. VIII - AOAC Germicidal Spray Test Supplemental for *Escherichia coli* O157:H7, ATCC 35150, 180.2100 (c),(d),(e), 320-480

MRID assigned: 47696807

Vol. IX - AOAC Germicidal Spray Test Supplemental for Extended Spectrum Beta Lactamase (ESBL) producing *Escherichia coli* (ESBL producing *E.coli*), ATCC BAA-196 180.2100 (c),(d),(e), 380-481

MRID assigned: 47696808

Vol. X - AOAC Germicidal Spray Test Supplemental for Methicillin-Resistant *Staphylococcus aureus* (MRSA), ATCC 33591, 180.2100 (c),(d),(e), 320-483

MRID assigned: 47696809

Vol. XI - AOAC Germicidal Spray Test Supplemental for Vancomycin-resistant *Enterococcus faecalis*, ATCC 51299 180.2100 (c),(d),(e), 320-487

MRID assigned: 47696810

Vol. XII - AOAC Germicidal Spray Test for Healthcare - *Staphylococcus aureus* (ATCC 6538), *Pseudomonas aeruginosa* (ATCC 15442), *Salmonella enterica* (ATCC 10708), 180.2100 (c), (d), (e), 320-490

MRID assigned: 47696811

Vol. XIII - Virucidal Effectiveness Test for Avian Influenza virus (H5N1) (NIBRG-14), 810.2100 (g), 320-491

MRID assigned: 47696812

Vol. XIV - Initial Virucidal Effectiveness Test for Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus), 810.2100 (g), 320-494

MRID assigned: 47696813

Vol. XV - Virucidal Effectiveness Test for Human Influenza A virus, 180.2100 (g), 320-496

MRID assigned: 47696814

Vol. XVI - Virucidal Effectiveness Test for Respiratory Syncytial Virus, ATCC VR-26, 810.2100 (g), 320-497

MRID assigned: 47696815

Vol. XVII - Confirmatory Virucidal Effectiveness Test for Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus), 810.2100 (g), 320-501

MRID assigned: 47696816

Vol. XVIII - Virucidal Effectiveness Test for Rhinovirus 39, ATCC VR-340, 810.2100 (g), 320-502

MRID assigned: 47696817

Vol. XIX - Virucidal Effectiveness Test for Poliovirus Type 1 ATCC VR-1562, 810.2100 (g), 320-515

MRID assigned: 47696818

Company Official: J. Evelyn Lawson

J. Evelyn Lawson
Signature

Company Name: Clorox Professional Products Company
Company Contact: J. Evelyn Lawson
Phone: (925) 425-6842
Fax: (925) 425-4496
E-mail: CTCPSERC@Clorox.com



United States
Environmental Protection Agency
Washington, DC 20460

☒ Registration
☐ Amendment
☐ Other

OPP Identifier Number
304064

Application for Pesticide - Section I

1. Company/Product Number 67619-to be assigned ER	2. EPA Product Manager Marshall Swindell	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Carb	PM# 33	
5. Name and Address of Applicant (Include ZIP Code) Clorox Professional Products Company; c/o PS&RC P.O. Box 493 Pleasanton, CA 94566-0803 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

New product submission (see cover letter for details).

Pesticide registration service fee information:

Category: A540; This is a new product, old chemical, which requires science review other than chemistry (efficacy data are being submitted)

Fee Amount: \$4410; email address: CTCPSERC@Clorox.com

Pay.gov Tracking ID is 24VA7DB2

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	
				<input type="checkbox"/> Plastic	
				<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
* Certification must be submitted				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container 19 oz	5. Location of Label Directions <input checked="" type="checkbox"/> on label			
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____					

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name J. Evelyn Lawson		Title Senior Regulatory Information Scientist		Telephone No. (Include Area Code) (925) 425-6842	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received (Stamped)
2. Signature J. Evelyn Lawson		3. Title Senior Regulatory Information Scientist			
4. Typed Name J. Evelyn Lawson		5. Date March 6, 2009			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M. Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington DC 20460.
 Do not send the completed form to this address.

Certification with Respect to Citation of Data

Applicant's/Registrant's Name, Address, and Telephone Number Clorox Professional Products Company (925) 425-6842 c/o PS&RC; P. O. Box 493 Pleasanton, CA 94566-0803	EPA Registration Number/File Symbol 67619-to be assigned (Note: this is the for the End-use Product)
Active Ingredient(s) and/or representative test compound(s) Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)	Date March 5, 2009
General Use Pattern(s) (list all those claimed for this product using 40CFR Part 158) Indoor	Product Name Carb

NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

SECTION I: METHOD OF DATA SUPPORT (Check one method only)

<input type="checkbox"/> I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data matrix form should be used for this purpose).	<input checked="" type="checkbox"/> I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).
--	---

SECTION II: GENERAL OFFER TO PAY

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☐ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

SECTION III: CERTIFICATION

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-in response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (1) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation; and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature <i>J. Evelyn Lawson</i>	Date 3/5/2009	Typed or Printed Name and Title J. Evelyn Lawson, Senior Regulatory Scientist
--------------------------------------	------------------	--

PRIA Assessment Form

PRIA Meeting Date _____
Reviewer/Team# _____ Team _____

Company Name: Clorox Professional Product Name CARB
Reg/file# 67619-ER Decision # 407020 PRIA Code (Months) A540
PRIA Code Description: _____
EPA Receive Date _____ Tentative Due Date (+21 days) _____
Fee Amount \$ _____ Fee Waiver Requested (Y/N) _____ Fee Pd.(Y/N) \$4410.00

Are there currently other registered pesticide products for each active ingredient in this product?
Yes ☒ No _____. If so, Registration #s _____,
_____,
Use Pattern _____, _____, _____,

Inert Ingredients

Has all inerts been cleared for use in pesticide registration: YES ☐ NO ☐ , If no, list

Submission Description

New Product old chemical ^(parent)
Purpose register a new product which is similar to 5813-67 but contains less ethanol. Chemistry + Efficacy data provided. Also requesting tox bridging.

Application/Amend. Form (Y/N) _____ New Labels (Y/N) _____ New CSF (Y/N) _____ Formulator's Exemption Form (Y/N) _____ Method of Support Form (Y/N) _____ Selective Method (Y/N) _____ Cite-All Method (Y/N) _____ EP/MUP Data Matrix (Y/N) _____ TGAI Data Matrix (Y/N) _____	Ingredient Statement: <i>Same as 5813-67 but less ethanol 65% 58% instead of 65%</i>
--	--

List of Uses on the label: <i>Institutional + Commercial Use</i>	Are all of the uses on the label approved for each of the actives on the label and source? _____ What are the pesticidal claims? (i.e., Disinf., Sanitizer, Preservative, Microbiocide) _____
---	--

PRIA Assessment Form

PRIA Meeting Date _____

Data Submitted? (Y/N) _____

Data Passed 86-5 Formatting? (Y/N) _____

EP/MP Chemistry _____

TGAI Chemistry _____

EP/MP Acute Tox _____

TGAI Toxicology _____

EP Efficacy _____

TGAI F&W _____

Release Rate Study _____

TGAI Fate _____

Submission Deficiencies:

Labeling
issues

Need
need better directions for use. Specific directions for animal housing.
delete reference to use on food surfaces. Need specific directions
for use in restaurants, food processing plants,

Next Steps:

PRIA 2 – 21 Day Content Screen Review Worksheet

(EPA/OPP Use Only)

21 Day Screen Start Date: 3-9-09^{4/9/08}

Experts In-Processing Signature: B. Barr Date 3-11

Fee Paid: Yes ☒

Division management contacted on issues No ☒ Yes ☐ Date _____

EPA Reg. Number: <u>67619-ER</u>		EPA Receipt Date: <u>3-9-09</u>				
Items for Review				Yes	No	N/A*
1	Application Form (EPA Form 8570-1) signed & complete including package type			X		
2	Confidential Statement of Formula all boxes completed, form signed, and dated (EPA Form 8570-4)			X		
	a) All inerts, except fragrances, approved for food and non food proposed uses (see Footnote A) <i>see comments</i>	yes	no			
		X				
3	Certification with Respect to Citation of Data (EPA Form 8570-34) completed and signed (N/A if 100% repack)			X		
	Certificate and data matrix consistent			X		
	If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)	yes	no			
	If applicable, is there a letter of Authorization for exclusive use only.					
4	Formulator's Exemption Statement (EPA Form 8570-27) completed and signed (N/A if source is unregistered or applicant owns the technical)					X
	Data Matrix (EPA Form 8570-35) both internal and external copies (PR 98-5) completed and signed (N/A if 100% repack)			X		
5	a) Selective Method (Fee category experts use)	yes	no			
	b) Cite-All (Fee category experts use)	X				
	c) Applicant owns all data (Fee category experts use)					
6	5 Copies of Label (Electronic labels on CD are encouraged)			X		
7	Is the data package consistent with PR Notice 86-5			X		
8	Notice of Filing (link to included with petitions)					X

9	If applicable for conventional applications, reduced risk rationale				2
10	Required Data and/or data waivers. See Footnote C.				
	a) List study (or studies) not included with application				
<p>Comments:</p> <p>CAS # for inert [REDACTED]</p> <p>CAS # for inert [REDACTED]</p> <p>Passed 86-5 Review - MRID # 476968</p> <p><i>*Inert ingredient information may be entitled to confidential treatment*</i></p>					

* N/A – Not Applicable

Footnotes

A. This consideration does not apply to PRIA applications that include a request to approve an inert in the fee category. For these PRIA actions, information needs to be submitted to enable the Agency to review the inert approval request and will be a subject of the 21 day content screen. For other types of actions and for fragrances, the answer is only for the Agency's information and current policies, processes, and procedures should be consulted. This worksheet will be updated in the future to be consistent with current policies.

If brand, trade, or proprietary names are being used for some inert ingredients listed on the CSF, alternate names or additional information on the nature of the ingredient(s) should be provided to allow the Agency to determine whether the inert has been approved.

B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.

C. Refer to the list of data requirements. Biopesticide applicants were advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.

Jennifer
Drobish/DC/USEPA/US
03/11/2009 01:40 PM

To CTCPSERC@clorox.com
cc
bcc
Subject Application for Registration of Carb

J. Evelyn Lawson

This is Jennifer Drobish, EPA contractor. I'm writing in regards to your submission in support of the application for registration of Carb. There was a deficiency regarding the application package. We can not find [REDACTED] of the inert ingredients in the EPA database as they are listed on the confidential statement of formula. Those inert ingredients are [REDACTED]. If you have an alternate name or CAS number that we can use to search for these ingredients please either fax them to 703-305-5060 Attn: Jennifer Drobish or email them to drobish.jennifer@epa.gov as all inert ingredients must be approved by EPA.

Thank you

Jennifer Drobish
EPA Contractor
703-305-1671



<evelyn.lawson@clorox.com>

03/11/2009 02:47 PM

To Jennifer Drobish/DC/USEPA/US@EPA

cc CTCPSERC@clorox.com

bcc

Subject CSF approved under EPA Reg. No. 5813-67

Jennifer,

This is the CSF we recently sent to the Agency under EPA Reg. No. 5813-67, showing [REDACTED] on the CSF.

Here's the approval letter:

I will look for the original submission and approval of this inert.

Evelyn

=====

J. Evelyn Lawson

Clorox Professional Products Company

Senior Regulatory Information Scientist

Phone: 925-425-6842

Facsimile: 925-425-4496

Evelyn.Lawson@Clorox.com

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sender immediately. 5813_67_CSF_A06_20081113.pdf 5813_67_CSF_acceptable_20090212.pdf



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DATA MATRIX

Date	March 5, 2009	EPA Reg. No./File Symbol	67619-to be assigned	Page	1 of 5
Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb (Note: this is the data matrix for the active ingredient ethanol)		

Ingredient Ethanol (1501)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550 (61-1)	Product Identity and Composition	42705601	American Ripener Co., Inc.	OLD	
830.1600 (61-2a)	Description of Materials Used to Produce the Product	42705601	American Ripener Co., Inc.	OLD	
830.1620 (61-2b)	Description of Production Process	42705601	American Ripener Co., Inc.	OLD	
830.1650 (61-2b)	Description of Formulation Process	N/A	Not required for Manufacturing Use Product		
830.1670 (61-3)	Discussion of Formation of Impurities	42705601	American Ripener Co., Inc.	OLD	
830.1700 (62-1)	Preliminary Analysis	N/A			
830.1750 (62-2)	Certification of Limits	42705602	American Ripener Co., Inc.	OLD	
830.1800 (62-3)	Enforcement Analytical Method	To be assigned	Clorox Professional Products Company (3/5/2009)	OWN	
830.1900 [64-1]	Submittal of Samples	N/A	Not a requirement at time of RED for Aliphatic Alcohols (April 1995)		
830.6302 (63-2)	Color	42705603	American Ripener Co., Inc.	OLD	
830.6303 (63-3)	Physical state	42705603	American Ripener Co., Inc.	OLD	
830.6304 (63-4)	Odor	42705603	American Ripener Co., Inc.	OLD	
830.6313 (63-13)	Stability to Normal and Elevated Temperature, Metals, and Metal Ions	42705603	American Ripener Co., Inc.	OLD	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/5/2009
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Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb (Note: this is the data matrix for the active ingredient ethanol)		

Ingredient Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6314 (63-14)	Oxidation /Reduction: Chemical Incompatibility	42705603	American Ripener Co., Inc.	OLD	
830.6315 (63-15)	Flammability	42705603	American Ripener Co., Inc.	OLD	
830.6316 (63-16)	Explosibility	42705603	American Ripener Co., Inc.	OLD	
830.6317 (63-17)	Storage Stability	Waived			
830.6319 (63-19)	Miscibility	42705603	American Ripener Co., Inc.	OLD	
830.6320 (63-20)	Corrosion Characteristics	42705603	American Ripener Co., Inc.	OLD	
830.6321 (63-21)	Dielectric Breakdown Voltage	Waived	Not required for Manufacturing Use Product		
830.7000 (63-12)	pH	42705603	American Ripener Co., Inc.	OLD	
830.7050 [None]	UV/Visible Absorption	Waived	Not required for Manufacturing Use Product		
830.7100(63-18)	Viscosity	42705603	American Ripener Co., Inc.	OLD	
830.7200 (63-5)	Melting Point/ Melting Range	42705603	American Ripener Co., Inc.	OLD	
830.7220 (63-6)	Boiling Point/Boiling Range	42705603	American Ripener Co., Inc.	OLD	
830.7300 (63-7)	Density/Relative Density/Bulk Density	42705603	American Ripener Co., Inc.	OLD	
830.7370 (63-10)	Dissociation Constants in Water	42705603	American Ripener Co., Inc.	OLD	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/5/2009
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Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb (Note: this is the data matrix for the active ingredient ethanol)		

Ingredient Ethanol (1501)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7520 [None]	Particle Size, Fiber Length, and Diameter Distribution	N/A	The product is neither a powdered-type nor a fibrous product		
830.7550 (63-11)	Partition Coefficient (n-Octanol/Water), Shake Flask Method	Waived			
830.7560 (63-11)	Partition Coefficient (n-Octanol/Water), Generator Column Method	Waived			
830.7570 (63-11)	Partition Coefficient (n-Octanol/Water), Estimation By Liquid Chromatography	Waived			
830.7840 (63-8)	Water Solubility: Column Elution Method; Shake Flask Method	42705603	American Ripener Co., Inc.	OLD	
830.7860 (63-8)	Water Solubility (Generator Column Method)	42705603	American Ripener Co., Inc.	OLD	
830.7950 (63-9)	Vapor Pressure	42705603	American Ripener Co., Inc.	OLD	
72-1a	Fish Toxicity Bluegill	40098001	Novartis Crop Protection	OLD	
72-1c	Fish Toxicity Rainbow Trout	40098001	Novartis Crop Protection	OLD	
72-2a	Invertebrate Toxicity	N/A	Guideline satisfied by studies in public literature	PL	
72-3a	Esturine/Marine Toxicity Fish	N/A	Guideline satisfied by studies in public literature	PL	
870.1100 (81-1)	Acute oral toxicity, rat	N/A	Guideline satisfied by studies in public literature	PL	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/5/2009
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Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb (Note: this is the data matrix for the active ingredient ethanol)		

Ingredient Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1200 (81-2)	Acute dermal toxicity, rabbit	N/A	Guideline satisfied by studies in public literature	PL	
870.1300 (81-3)	Acute inhalation toxicity, rat	N/A	Guideline satisfied by studies in public literature	PL	
870.2400 (81-4)	Primary eye irritation, rabbit	N/A	Guideline satisfied by studies in public literature	PL	
870.2500 (81-5)	Primary dermal irritation, rabbit	N/A	Guideline satisfied by studies in public literature	PL	
870.2600 (81-6)	Dermal Sensitization	N/A	Not a requirement at time of RED for Aliphatic Alcohols (April 1995)		
(82-1a)	90 Day Feeding – Rodent	N/A	Guideline satisfied by studies in public literature	PL	
(82-2)	21 Day Dermal	N/A	Guideline satisfied by studies in public literature	PL	
(82-4)	90 Day Inhalation	N/A	Guideline satisfied by studies in public literature	PL	
(83-1a)	Chronic Feeding Toxicity – Rodent	00031038	Purdue Frederick Company	OLD	
(83-3a)	Development Toxicity – Rat	N/A	Guideline satisfied by studies in public literature	PL	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/5/2009
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Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb (Note: this is the data matrix for the active ingredient ethanol)		

Ingredient Ethanol (1501)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
(84-2a)	Gene Mutation (Ames Test)	N/A	Guideline satisfied by studies in public literature	PL	
(84-2b)	Structural Chromosomal Abberation	N/A	Guideline satisfied by studies in public literature	PL	
(84-4)	Other Genotoxic Effects	N/A	Guideline satisfied by studies in public literature	PL	
(85-1)	General Metabolism	N/A	Guideline satisfied by studies in public literature	PL	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/5/2009
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DATA MATRIX

Date	March 3, 2009	EPA Reg. No./File Symbol	67619-to be assigned	Page	1 of 7
Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb		
Ingredient	Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550 (61-1)	Product Identity and Composition	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.1600 (61-2a)	Description of Materials Used to Produce the Product	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.1620 (61-2a)	Description of Production Process	Waiver requested			
830.1650 (61-2a)	Description of Formulation Process	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.1670 (61-3)	Discussion of Formation of Impurities	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.1700 (62-1)	Preliminary Analysis	Waiver requested			
830.1750 (62-2)	Certified Limits	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	See CSF
830.1800 (62-3) [for quat]	Enforcement Analytical Method	47603801	The Clorox Company (11/24/2008)	OWN	
830.1800 (62-3) [for EtOH]	Enforcement Analytical Method	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/3/2009
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Ingredient	Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1900 (64-1)	Submittal of Samples	Waiver requested			
830.6302 (63-2)	Color	Waiver requested			
830.6303 (63-3)	Physical state	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.6304 (63-4)	Odor	Waiver requested			
830.6313 (63-13)	Stability to Normal and Elevated Temperature, Metals, and Metal Ions	Waiver requested			
830.6314 (63-14)	Oxidation /Reduction: Chemical Incompatibility	Waiver requested			
830.6315 (63-15)	Flammability	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.6316 (63-16)	Explosibility	Waiver requested			
830.6317 (63-17)	Storage Stability	Waiver requested			

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/3/2009
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Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6319 (63-19)	Miscibility	Waiver requested			
830.6320 (63-20)	Corrosion Characteristics	Waiver requested			
830.6321 (63-21)	Dielectric Breakdown Voltage	Waiver requested			
830.7000 (63-12)	pH	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.7050 [None]	UV/Visible Absorption	Waiver requested			
830.7100(63-18)	Viscosity	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
830.7200 (63-5)	Melting Point/ Melting Range	Waiver requested			
830.7220 (63-6)	Boiling Point/Boiling Range	Waiver requested			
830.7300 (63-7)	Density/ Relative Density/Bulk Density	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/3/2009
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Ingredient	Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7370 (63-10)	Dissociation Constants in Water	Waiver requested			
830.7520 [None]	Particle Size, Fiber Length, and Diameter Distribution	Waiver requested			
830.7550 (63-11)	Partition Coefficient (n-Octanol/Water), Shake Flask Method	Waiver requested			
830.7560 (63-11)	Partition Coefficient (n-Octanol/Water), Generator Column Method	Waiver requested			
830.7570 (63-11)	Partition Coefficient (n-Octanol/Water), Estimation By Liquid Chromatography	Waiver requested			
830.7840 (63-8)	Water Solubility: Column Elution Method; Shake Flask Method	Waiver requested			
830.7860 (63-8)	Water Solubility (Generator Column Method)	Waiver requested			
830.7950 (63-9)	Vapor Pressure	Waiver requested			
870.1100 (81-1)	Acute oral toxicity, rat 5813-67	44636902	The Clorox Company (8/21/1998)	OWN	
870.1200 (81-2)	Acute dermal toxicity, rabbit 5813-67	44636903	The Clorox Company (8/21/1998)	OWN	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/3/2009
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Form Approved OMB No. 2070-0060

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DATA MATRIX

Date	March 3, 2009	EPA Reg. No./File Symbol	67619-to be assigned	Page	5 of 7
Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb		

Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1300 (81-3)	Acute inhalation toxicity, rat 5813-61	44636904	The Clorox Company (8/21/1998)	OWN	
870.2400 (81-4)	Primary eye irritation, rabbit 5813-61	44636905	The Clorox Company (8/21/1998)	OWN	
870.2500 (81-5)	Primary dermal irritation, rabbit 5813-67	44636906	The Clorox Company (8/21/1998)	OWN	
870.2600 (81-6)	Dermal Sensitization 5813-67	44636907	The Clorox Company (8/21/1998)	OWN	
810.2100 (c),(d),(e)	<i>Trichophyton mentagrophytes</i> , ATCC 9533, 5% soil load; 1 min; 320-474	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (c),(d),(e)	<i>Acinetobacter baumannii</i> , ATCC 15308, 5% soil load; 3 min; 320-475	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (c),(d),(e)	Hospital-Associated Methicillin-Resistant <i>Staphylococcus aureus</i> , Genotype USA 100 (HA-MRSA 100), NRS382, Clinical Isolate 08009, 5% soil load; 3 min; 320-476	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (c),(d),(e)	Hospital-Associated Methicillin-Resistant <i>Staphylococcus aureus</i> , Genotype USA 200 (HA-MRSA 200), NRS383, Clinical Isolate 08010, 5% soil load; 3 min; 320-477	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (c),(d),(e)	Community-Associated Methicillin-Resistant <i>Staphylococcus aureus</i> , Genotype 300 (CA-MRSA 300), Clinical Isolate 08001, 5% soil load; 3 min; 320-478	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (c),(d),(e)	<i>Escherichia coli</i> O157:H7, ATCC 35150, 5% soil load; 3 min; 320-480	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	

Signature J. Evelyn Lawson

Name and Title J. Evelyn Lawson,
Senior Regulatory Information Scientist

Date
3/3/2009



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Applicant's/Registrant's Name & Address	Clorox Professional Products Company c/o PS&RC; P.O. Box 493 Pleasanton, CA 94566-0803	Product	Carb		
Ingredient	Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.2100 (c),(d),(e)	ESBL (Extended Spectrum Beta Lactamase) producing <i>Escherichia coli</i> (ESBL producing <i>E. coli</i>) (ATCC BAA-196); 5% soil load; 3 min; 320-481	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (c),(d),(e)	Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA), ATCC 33591, 5% soil load; 3 min; 320-483	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (c),(d),(e)	Vancomycin-resistant <i>Enterococcus faecalis</i> , ATCC 51299, 5% soil load; 3 min; 320-487	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (c),(d),(e)	<i>Staphylococcus aureus</i> , (ATCC 6538), <i>Pseudomonas aeruginosa</i> , (ATCC 15442), <i>Salmonella enterica</i> , (ATCC 10708) 5% soil load; 3 min; 320-490	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (g)	Avian Influenza virus (H5N1)(NIBRG-14), 5% soil load; 30 sec; 320-491	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (g)	Initial Bovine Viral Diarrhea Virus (Surrogate for Human Hepatitis C virus), 5% soil load; 30 sec; 320-494	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (g)	Human Influenza A virus, A/PR/8/34 (H1N1); 5% soil load; 30 sec; 320-496	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (g)	Respiratory Syncytial Virus, ATCC VR-26, ≥ 5% soil load; 30 sec; 320-497	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (g)	Confirmatory Bovine Viral Diarrhea Virus, (Surrogate for Human Hepatitis C virus), 5% soil load; 30 sec; 320-501	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/3/2009
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DATA MATRIX

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Ingredient Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) (69105), Didecyl dimethyl ammonium chloride (69149), Octyl decyl dimethyl ammonium chloride, (69165), Dioctyl dimethyl ammonium chloride (69166), Ethanol (1501)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.2100 (g)	Rhinovirus 39, ATCC VR-340, 5% soil load; 30 sec; 320-502	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	
810.2100 (g)	Poliovirus Type 1, ATCC VR-1562, 5% soil load; 10 min; 320-515	To be assigned	Clorox Professional Products Company (3/3/2009)	OWN	

Signature	J. Evelyn Lawson	Name and Title	J. Evelyn Lawson, Senior Regulatory Information Scientist	Date	3/3/2009
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CARB

ACTIVE INGREDIENTS:

Octyl decyl dimethyl ammonium chloride	0.1890%
Diocetyl dimethyl ammonium chloride	0.0945%
Didecyl dimethyl ammonium chloride	0.0945%
Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chlorides	0.2520%
Ethanol	58.0600%
OTHER INGREDIENTS†	41.3100%
TOTAL:	100.0000%

† This product contains sodium nitrite

KEEP OUT OF REACH OF CHILDREN

WARNING: See back panel for additional precautionary statements.

NET WT. 19 OZ.

This product must not result in the direct or indirect contamination of food products.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eye wear (safety glasses). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. If skin contact with product occurs, wash thoroughly with soap and water, especially prior to food handling and preparation. Remove or cover aquariums and cages before use.

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor for further treatment advice. Have the product container with you when calling a poison control center or doctor or going for treatment. Questions? Call 1-888-797-7225.

PHYSICAL HAZARDS: Flammable: Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130° Fahrenheit may cause bursting.

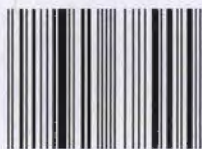
STORAGE AND DISPOSAL: Pesticide Storage and Disposal: Do not contaminate water, food, or feed by storage and disposal. Store at temperatures below 130° Fahrenheit. **Container Disposal:** Do not puncture or incinerate. Do not reuse empty container. [Please] recycle empty container or discard in trash.

-or-

This container may be recycled in aerosol recycling centers. At present, there are only a few such centers in the U.S. Before offering for recycling, empty the can by using the product according to the label. (DO NOT PUNCTURE!) If recycling is not available, wrap the container and discard in the trash.

-or-

Empty the can by using the product according to the label. (DO NOT PUNCTURE) Some recycling centers accept these steel containers. Otherwise, wrap container and discard in trash.



Questions? Comments? Call toll-free 1-888-797-7225
Mfd. for Clorox Professional Products Company, Oakland, CA 94612
© 2009 The Clorox Company
EPA Reg. No. 67619-XX
EPA Est. No. 58996-MO-1, 5813-CA-5, 71681-GA-1, IL-1, IL-2, 81368-OH-1

Made in [the] USA
Contains no phosphorus
Contains no CFCs or other ozone depleting substances
Federal Regulations Prohibit CFC Propellants in Aerosols

R0803-1

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
[Shake well.] For use on non-food contact surfaces only.

For surfaces that may come in contact with food [such as countertops and high chairs], a potable water rinse is required. Do not use on glassware, utensils or dishes.

General Use

New! [& Improved] to be used as a claim descriptor only for the first 6 months of product on shelf

Claims:

- Avoid use on [polished] wood, painted surfaces, acrylic plastics
- Bleach-free
- Clear formula
- Color safe
- Commercial Solutions®
- Contains no abrasives, harsh acids
- Contains no bleach
- Convenient
- Does not contain bleach
- Easy to use
- Eliminates -or- Removes [kitchen] [bathroom] odors
- For Professional Use
- For use in homes
- For use on both white and colored hard surfaces
- Formula for bathrooms -and/or- kitchens
- Great for everyday use [in the kitchen -or- bathroom]
- Great for Kitchen[s] -and/or- Bathroom[s] [too]
- [Great] For Everyday Use [in Kitchens and Bathrooms]
- Great in the Kitchen and Bathroom
- Institutional [size]
- Is safe for -or- will not harm most hard, nonporous surfaces
- Kitchen formula
- Made for kitchen surfaces and odors
- Multi-Surface
- No mixing
- No Unpleasant Odors
- Non-abrasive formula [will not scratch surfaces]
- Non-Chlorine Formula: Will not bleach clothing or colored surfaces
- Prevents [odors]
- Professional size
- Safe for Special -or- Premium Surfaces

DEODORIZATION

To deodorize: Spray on precleaned surfaces as needed.

Claims:

- Deodorizes -and/or- disinfects -or- helps deodorize
- Deodorizer [for Institutional Use]
- Deodorizes food odors [like garlic and onion] [left behind on kitchen surfaces] [after cooking]
- Eliminates mold odor[s]
- Eliminates odors caused by bacteria [and non-fresh foods]
- Eliminates -or- reduces [kitchen] odors [in the trash can -or- recycling bin odors -or- smells] [caused by germs or bacteria]
- Eliminates pet odors caused by germs or bacteria
- Kills odor causing bacteria in the kitchen -or- bathroom
- Kills odor causing bacteria -or- germs
- Kills -or- eliminates bacteria that cause [bad] odors
- [This product] deodorizes areas that are hard to keep fresh smelling, in the [insert use sites from Tables 1-5]
- [This product] will deodorize hard, nonporous surfaces [including [insert surface[s] from Tables 1-5] [use site[s] from Tables 1-5]] [where obnoxious odors may develop]
- [This product] will deodorize surfaces in [insert site[s] from Tables 1-5]
- Removes -or- Eliminates odors

DYE & SCENT DESCRIPTORS AND CLAIMS:

- Contains no [dyes] [added colors]
- Dye-Free
- Free of Added -and/or- Dyes -and/or- Colors
- Free -or- clear of dyes
- Fresh scent formula
- Fresh Scented
- Has a fresh scent -or- fragrance -or- smell

MOLD

To control and prevent the growth of mold:

Spray precleaned surface until thoroughly wet. Surface must remain wet for 1 minute before wiping or air drying. Respray product as necessary for ongoing -or- continual control.

Claims:

- Controls [and] [prevents] mold growth
- Kills [and prevents the growth of] mold
- This product inhibits growth of mold

Organism:

1 minute contact time:

Trichophyton mentagrophytes [ATCC 9533]

R0803-1

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DISINFECTION

To Disinfect: Spray 6 to 10 inches from precleaned surface for 3-4 seconds -or- until thoroughly wet. Surface must remain wet for 10 minutes.

Do not use on glasses, dishes, or utensils.

Claims:

- Antibacterial [spray] [action] [formula]
- An effective disinfectant for use in the kitchen, bathroom, bedroom, and other areas
- Antibacterial [Formula]
- Antibacterial Formula Disinfects
- Antibacterial -or- Germicidal [on hard, nonporous surfaces] [for Kitchens and Bathrooms]
- Antibacterial -or- Germicidal [Formula]
- Antimicrobial
- Bactericidal
- [Bathroom] [Restroom] [Kitchen] disinfectant
- Broad Spectrum Hospital Disinfectant
- Disinfects & [and] Deodorizes
- Disinfectant
- Disinfectant [for Institutional Use]
- Disinfecting formula
- Disinfecting spray
- Disinfect[s]
- Disinfects [Germs]
- Disinfects [washable] kitchen surfaces including killing [99.9% of] germs -and/or- bacteria -and/or- viruses -and/or- fungi
- Easily disinfect
- For [Hospital] [Commercial] [Industrial] & Institutional Use [Only]
- For Healthcare Use
- For Hospital Use
- Fungicidal -or- Antifungal
- Germicidal
- Hospital disinfectant
- Hospital grade disinfectant
- Kills 99.9% of Bacteria
- Kills [99.9% of] Germs
- Kills [99.9% of] [kitchen] [bathroom] bacteria
- Kills [99.9% of] see organism list
- Kills Avian Influenza**
- Kills bacteria -or- germs -or- viruses on washable kitchen -and/or- bathroom surfaces and fixtures
- Kills bacteria -or- viruses
- Kills Flu Virus[†] [Influenza A]
- Kills [household] bacteria [without bleaching]
- Kills Influenza A virus [the virus that causes the common flu]
- Kills [Salmonella enterica] [kitchen bacteria]
- Leaves hard, nonporous surfaces sanitary -or- disinfected in 10 minutes
- Multi-purpose disinfectant [spray]

- Provides broad spectrum kill of Gram negative and Gram positive micro-organisms
- Pseudomonacidal
- Ready to use disinfectant
- Ready to use formula provides disinfecting and deodorizing
- Spray
- Staphylocidal
- Streptocidal
- [This product] deodorizes and disinfects hard, nonporous surfaces -or- list any use sites: Tables 1-5
- [This product] is a no rinse disinfectant that disinfects, and deodorizes in one labor saving step
- This product is a Broad Spectrum disinfectant, bactericidal according to the AOAC Germicidal Spray Products test method
- This product is effective against the pathogenic fungi Trichophyton mentagrophytes (Athlete's Foot Fungus) when used as directed for disinfection with a contact time of 1 minute on hard, nonporous surfaces in bathrooms, including shower stalls, floors, and glazed bathroom tiles
- [This product] kills 99.9% of bacteria & viruses
- [This product] kills bacteria, viruses and mold
- [This product] kills germs throughout the kitchen -or- restaurant -or- establishment -or- building on hard, nonporous surfaces plus controls mold growth
- This product meets AOAC Germicidal Spray Product Test efficacy standards for hospital disinfectants
- [This product] will disinfect hard, nonporous surfaces [insert surface(s) from Tables 1-5] [use site(s) from Tables 1-5]
- Use [this product] to disinfect nonporous [insert use sites/surfaces from Tables 1-5]. [Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (120°), and allow to air dry.
- Virucidal -or- Antiviral
- [Virucidal] [Bactericidal] [Pseudomonacidal] [Fungicidal] [Deodorizer]

* Kills Avian Influenza virus on precleaned environmental surfaces

†Influenza A

Germicidal against the following [organisms]: -or- [This product] kills the following [organisms]: -or- Disinfects against the following [organisms] -and/or- Fungicidal -and/or- Virucidal:

Organisms:

See organism list

R0803-1

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DISINFECTION continued**Organisms:**

[This product] kills germs: -or- Kills -or- Disinfects against the following bacteria, viruses, mold:

ORGANISMS:**Bacteria:****3 minute contact time:**

Acinetobacter baumannii	[ATCC 15308]
Community-associated Methicillin resistant Staphylococcus aureus, (CA-MRSA Genotype 300)	[Genotype 300]
Escherichia coli O157:H7	[ATCC 35150]
ESBL (Extended Spectrum Beta Lactamase) producing Escherichia coli (ESBL producing E. coli)	[ATCC BAA-196]
Hospital-associated Methicillin resistant Staphylococcus aureus, (HA-MRSA 100)	[Genotype USA 100 NARSA NRS382]
Hospital-associated Methicillin resistant Staphylococcus aureus, (HA-MRSA 200)	[Genotype USA 200 NARSA NRS383]
Methicillin-resistant Staphylococcus aureus	[ATCC 33591]
Pseudomonas aeruginosa	[ATCC 15442]
Salmonella enterica	[ATCC 10708]
Staphylococcus aureus	[ATCC 6538]
Vancomycin-resistant Enterococcus faecalis (VRE)	[ATCC 51299]

Fungus:**1 minute contact time:**

Trichophyton mentagrophytes	[ATCC 9533]
-----------------------------	-------------

Viruses (non-enveloped):**30 second contact time:**

Rhinovirus 39	[ATCC VR-340]
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10 minute contact time:

Poliovirus [type 1] [Polio]	[ATCC VR-1562]
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Viruses (enveloped):**30 second contact time:**

Avian Influenza	[H5N1 NIBRG-14]
Bovine viral diarrhea virus (human Hepatitis C virus surrogate)	
Human Influenza A virus	[A/PR/8/34 (H1N1)]
Respiratory syncytial virus [cause of respiratory infections in infants] [(leading cause of lower respiratory infection in children)]	[ATCC VR-26]

Environmental Text:

[Important Facts about this product:]

- ◆ This can is made from an average of 25% recycled steel (10% post-consumer)

- ◆ Encourage your local authorities to establish a program to recycle this can
- ◆ Recyclable

R0803-1

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TABLE 1 Medical:**USE SITES**

Ambulances -or- [Emergency Medical] Transport Vehicles
Anesthesia Rooms -or- Areas
(Assisted Living -or- Full Care) Nursing Homes
CAT Lab[oratories]
Central Service Areas
Central Supply Rooms -or- Areas
Critical Care Units -or- CCUs
Doctor's Offices
Donation Centers [blood] [plasma] [semen] [milk] [apheresis]
Emergency Rooms -or- ERs
Eye Surgical Centers
Health Care Settings -or- Facilities
Home Health Care [Settings]
Hospices

Hospitals
[Hospital] Kitchens
Intensive Care Units -or- ICU[s] [areas]
Laboratories
Laundry Rooms
Long Term Care Facilities
[Medical] Clinics [Facilities]
Medical Facilities
Medical -or- Physician's -or- Doctor's Offices
Newborn -or- Neonatal [Nurseries] [Intensive Care] Units [NICU]
Nursing Homes
Nursing -or- Nurses' Stations
Operating Rooms
Ophthalmic Offices
Orthopedics
Outpatient [Surgical Centers (OPSC)] [Clinics] [Facilities]

Patient Areas
Patient Restrooms
Patient Rooms
[Pediatric] Examination Rooms -or- Areas
Pediatric Intensive Care Units [PICU]
Pharmacies
Physicians' Offices
Physical Therapy Rooms -or- Areas
Psychiatric Facilities
Public Areas
Radiology -or- X-Ray Rooms -or- Areas
Recovery Rooms
Rehabilitation Centers
Surgery Rooms -or- Operating Rooms -or- ORs
Waiting Rooms -or- Waiting Areas

SURFACES

anesthesia machines
apheresis machines
autoclaves
bathroom doorknob
bedpans
bedpan cleaner
bedrails
[bedside] commodes
bedside tables
blood pressure cuffs
blood pressure (BP) monitors
cabinets
call boxes
CAT -or- Computerized Axial Tomography equipment
carts
chairs
charging stations
computer peripherals
computer screens
computer tables
cords
counters
[crash] [emergency] carts
diagnostic equipment
docking stations

edges of privacy curtains
[exam -or- examination] tables
external surfaces of [medical] equipment -or- [medical] equipment surfaces
[external] [surfaces of] ultrasound transducers [-and/or- probes]
gurneys
hard, nonporous hospital -or- medical surfaces
[hospital -or- patient] bed(s) [springs] [railings] -or- linings -or- frames
IV [stands] [pumps] [poles]
keyboards
large surfaces
loupes
mammography equipment
medication carts
mobile workstations
mouse pads
MRI -or- Magnetic Resonance Imaging equipment
operating room tables and lights
operating room light switches
overbed tables
paddles
patient chairs
plastic -or- vinyl mattress covers
patient monitoring equipment

patient support and delivery equipment
phlebotomy trays
physical therapy (pt) equipment surfaces
pulse oximeters
PVC tubing
reception counters -or- desks -or- areas
remote controls
respiratory therapy equipment
scales
sequential compression devices
side rails
silt lamps
small surfaces
spine backboards
stethoscopes
stools
stretchers
surfaces in and around toilets in patient rooms
toilet handholds
traction devices
walls [around toilet] [in patient rooms]
wash basins
wheelchairs
x-ray equipment

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

PERSONAL PROTECTIVE SAFETY EQUIPMENT

face shields
goggles
hard hats

protective headgear
silicone rubber -or- PVC hearing protectors

spectacles
vinyl covered earmuffs

R0803-1

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Use on non-critical surfaces in:**TABLE 2 Dental:****USE SITES**

Dental Offices
Examination Rooms
Dental Operatories
Dental -or- Dentists' Offices

SURFACES

amalgamators -and/or- dental curing lights
dental countertops
dental operatory surfaces
dentists' -or- dental chairs

endodontic equipment such as apex locators
hard, nonporous [environmental] dental surfaces
light lens covers
pulp testers and motors
reception counters -or- desks -or- areas

TABLE 3 Veterinary and Farm:**USE SITES**

Animal Life Science Laboratories
Animal [Pet] Housing [Kennels] [Facilities]
Animal Holding Areas
[Animal -or- Pet] Grooming Facilities
Animal Transportation Vehicles
Breeding Establishments
Equine Farms

Farms
Kennels
Livestock -and/or- Swine -and/or- Poultry Facilities
Pet [Areas] [Quarters]
Pet Shops -or- Stores
Small Animal Facilities
Tack Shops

Veterinary Clinics -or- Facilities
Veterinary -or- Animal Hospitals
Veterinary [Offices] [Waiting Rooms]
Veterinary [Examination Rooms]
Veterinary [X-ray Rooms]
Veterinary [Operating Rooms]
Zoos

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

SURFACES

animal equipment
around troughs
automatic feeder exteriors
empty cages
external surfaces of [veterinary] equipment

feed rack exteriors
fountains
hard, nonporous [environmental] veterinary surfaces
pens

reception counters -or- desks -or- areas
stalls
veterinary care surfaces
watering appliance exteriors

TABLE 4 Food Service:**USE SITES**

Banquet Halls
Bars
Cafeterias
Catering Facilities
Commercial -or- Institutional Kitchens

Delis [Delicatessens]
Fast Food Chains -or- Restaurants
Food Preparation and Processing Areas
Food [Service -or- Processing] Establishments
Food Serving Areas

Other Food Service Establishments
Restaurants
School Kitchens

SURFACES

any washable (food and non-food contact) surface
where disinfection is required
appliances
dish racks
drain boards
food cases
food trays
freezers

hoods
microwave[s] [exteriors]
oven[s] [exteriors]
plastic -or- metal outdoor furniture
(excluding wood frames and upholstery)
refrigerator[s] [exteriors]
salad bar sneeze guards
stoves -or- stovetops

R0803-1

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TABLE 5 Miscellaneous/General:

USE SITES

Airplanes [Airports]
Ambulances
Athletic [Recreational] Facilities
Automobiles
Barber Shops
Basements
Bathrooms
Bathroom -or- Locker Room
Facilities
Beauty Salons
Bedrooms
Blood Banks
Boats
Bowling Alleys
Buses
Butcher Shops
Cafeterias
Campers
Cars
Churches
Colleges
Convenience Stores
Correctional Facilities
[Damp] Storage Areas
Day Care Centers
Dens
Dorms
Dormitories
Elevators
Emergency Vehicles
Factories
Fast Food Restaurants
[Food Processing] Plants
Funeral Homes
Garages
[Garbage] [Waste] Storage Areas

Gas Stations
Grocery Stores
Gymnasiums -or- Gyms
Health Club[s] [Facilities]
Homes
Home Centers
Hotels
Industrial Facilities
Institutional Kitchens
[Institutional] Laundromats
Institutions
Kennels
Kitchen[s] [surfaces]
Laboratories
Laundromats
Laundry Rooms
Lavatories
Locker Rooms
Lodging Establishment
Lounges
Malls
[Manufacturing] Plants
Manufacturing Plants -or- Facilities
Markets
Mass Merchandisers, Discount Retailers
-and/or- General Merchandise Stores
Military Installations
Mobile Homes
Mortuaries
Motels
Motor Homes
Mudrooms
Nurseries
Office[s] [Buildings]
Pet Areas
Pharmacies

Play Areas -or- Rooms
Playgrounds
[Police -and/or- Fire] Vehicles
Produce Areas
Public Areas
Public Facilities
Public Restrooms
Public Telephone[s] [Booths]
Recreational Centers -or- Facilities
Rental Cars
Rest Stops
Restaurants
Restrooms -or- Restroom Areas
Retail businesses
School Buses
Schools
Shelters
Ships
Shopping Centers
Shops
Shower Rooms
Sports Arenas
Storage Rooms -or- Areas
Subways
Supermarkets
Toolsheds
Transportation Terminals
Trains
Trolleys
Universities
Vacation Homes
Warehouse Clubs

A potable water rinse is required for food contact surfaces.
Do not use on glassware, utensils, or dishes

R0803-1

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TABLE 5 Miscellaneous/General: continued

SURFACES

appliance exterior[s] [surfaces]	elevator buttons	linoleum	sports equipment
appliance -or- cabinet knobs	enamel	lockers	stainless steel
bassinet	exercise machines	[medicine] cabinets	stall doors
[bathroom] fixtures	exhaust fans	metal	staplers
[bathroom] [kitchen] faucet[s]	exterior -or- external toilet surfaces	metal blinds	stovetops -or- stoves
[handles]	exterior -or- external urinal surfaces	metal work benches	synthetic marble
[bath]tubs	exterior surfaces of	microwave exterior	tables [tabletops]
bed frames	urinals -and/or- toilets	office machinery	[tiled] walls
behind and under counters	faucets	office -or- bedroom -or-	tires
behind and under sinks	fax machine[s] [handles]	bedside furniture	[toilet {flush}] [telephone] [cabinet]
boats	fiberglass	other telecommunication	[dishwasher] [door] handles
booster chairs	[tiling] [medicine] cabinets	equipment surfaces	toilet -and/or- urinal exterior[s]
burner trays	finished hardwood	outdoor grill exteriors	[surfaces] -or- exterior toilet
cabinets	finished -or- painted woodwork	outdoor -or- patio furniture	surfaces toilet[s] [handle] [rims]
car interiors	finished windowsills	oven doors	[seats] [tops]
cars	fixtures	pet areas -or- surfaces	tools
ceilings	floors [around toilets]	phones	towel dispensers
chairs	furniture	plastic laundry hampers -or- baskets	toy boxes -or- storage bins
[children's] furniture	freezer exteriors	plastic patio furniture	trailers
closets	garage surfaces	-or- lawn chairs	[training] toilets
[clothes] [diaper] hampers	garbage -or- trash cans	plastic shower curtains	trash cans -or- compactors
[computer] keyboards	glazed ceramic [restroom surfaces]	plastic surfaces associated with:	tray tables
cooler exteriors	glazed [ceramic] tile[s]	floors, walls, fixtures, toilets,	tubs
counters -or- counter tops	glazed porcelain [tiling -or- tile]	urinals, sinks, shower rooms	urinals
cupboards	[grocery [store] -or- supermarket]	and locker rooms	vanity tops -or- vanities
cribs	carts	playground equipment	vehicles
crystal (non-food contact areas)	[grocery [store] -or- supermarket]	playpens	vending machine surfaces
desk[s] [tops]	cart handles	portable toilet exteriors	[vinyl] linoleum -or- wallpaper
[diaper -or- infant] changing [tables]	[grocery [store] -or- supermarket]	[public -or- pay] telephones	walkers
-or- areas [stations]	cart child seats	-or- phone booths	walls
diaper pails	gym[nastic] equipment	range hoods	[washable] floors [including
dictating equipment [surfaces]	hampers	recycling bins	linoleum, no-wax, vinyl, and
[dining] [fast food] [kitchen] [picnic]	[hand]railings -or- rails	refrigerator door handles	glazed ceramic tile]
[play] [restaurant] [tray] tables	[hard] plastic -or- vinyl	refrigerator exterior	washable kitchen surfaces
dining room surfaces -and/or- tables	headsets	RVs	[washable] walls
-and/or- fast food restaurant tables	high chairs (non-food contact	shelves [and drawers]	washers/dryers -or-
door[s] [handle[s]] [frame[s]]	areas)	shower[s] [area] [curtains]	washing machine exterior[s]
doorknobs	[kids'] play [structures]	[doors] [stalls] [walls]	wastebaskets
drain boards	[equipment] [furniture] [tables]	signs	whirlpool tubs
drawer pulls	[kitchen] appliance exteriors	sink[s] [basins]	window [blinds] [shades]
dressing carts	light fixtures -or- switches -or- panels	seats	windshields
			wrestling mats

SURFACE MATERIALS

[baked] enamel	glazed porcelain	synthetic marble	Not Recommended For Use On
chrome	laminated surfaces	tile	-or- Avoid Contact With:
[common] hard, nonporous	Marlite	vinyl [tile]	acrylic plastics
[household -or- environmental]	painted surfaces	similar hard, nonporous	natural marble
surfaces	plastic [laminate]	surfaces except for those	painted surfaces
fiberglass	plexiglass	excluded by the label	paper surfaces
Formica	porcelain enamel		[polished] wood
glazed ceramic [tile]	stainless steel		rubber
			unfinished wood

R0803-1

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CARB

ACTIVE INGREDIENTS:

Octyl decyl dimethyl ammonium chloride	0.1890%
Dioctyl dimethyl ammonium chloride	0.0945%
Didecyl dimethyl ammonium chloride	0.0945%
Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chlorides	0.2520%
Ethanol	58.0600%
OTHER INGREDIENTS†	41.3100%
TOTAL:	100.0000%

† This product contains sodium nitrite

KEEP OUT OF REACH OF CHILDREN

WARNING: See back panel for additional precautionary statements.

NET WT. 19 OZ.

This product must not result in the direct or indirect contamination of food products.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eye wear (safety glasses). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. If skin contact with product occurs, wash thoroughly with soap and water, especially prior to food handling and preparation. Remove or cover aquariums and cages before use.

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor for further treatment advice. Have the product container with you when calling a poison control center or doctor or going for treatment. Questions? Call 1-888-797-7225.

PHYSICAL HAZARDS: Flammable: Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130° Fahrenheit may cause bursting.

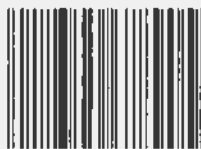
STORAGE AND DISPOSAL: Pesticide Storage and Disposal: Do not contaminate water, food, or feed by storage and disposal. Store at temperatures below 130° Fahrenheit. **Container Disposal:** Do not puncture or incinerate. Do not reuse empty container. [Please] recycle empty container or discard in trash.

-or-

This container may be recycled in aerosol recycling centers. At present, there are only a few such centers in the U.S. Before offering for recycling, empty the can by using the product according to the label. (DO NOT PUNCTURE!) If recycling is not available, wrap the container and discard in the trash.

-or-

Empty the can by using the product according to the label. (DO NOT PUNCTURE) Some recycling centers accept these steel containers. Otherwise, wrap container and discard in trash.



Questions? Comments? Call toll-free 1-888-797-7225
Mfd. for Clorox Professional Products Company, Oakland, CA 94612
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EPA Reg. No. 67619-XX
EPA Est. No. 58996-MQ-1, 5813-CA-5, 71681-GA-1, IL-1, IL-2, 81368-OH-1

Made in [the] USA
Contains no phosphorus
Contains no CFCs or other ozone depleting substances
Federal Regulations Prohibit CFC Propellants in Aerosols

R0803-1

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
[Shake well.] For use on non-food contact surfaces only.

For surfaces that may come in contact with food [such as countertops and high chairs], a potable water rinse is required. Do not use on glassware, utensils or dishes.

General Use

New! [& Improved] to be used as a claim descriptor only for the first 6 months of product on shelf

Claims:

- Avoid use on [polished] wood, painted surfaces, acrylic plastics
- Bleach-free
- Clear formula
- Color safe
- Commercial Solutions®
- Contains no abrasives, harsh acids
- Contains no bleach
- Convenient
- Does not contain bleach
- Easy to use
- Eliminates -or- Removes [kitchen] [bathroom] odors
- For Professional Use
- For use in homes
- For use on both white and colored hard surfaces
- Formula for bathrooms -and/or- kitchens
- Great for everyday use [in the kitchen -or- bathroom]
- Great for Kitchen[s] -and/or- Bathroom[s] [too]
- [Great] For Everyday Use [in Kitchens and Bathrooms]
- Great in the Kitchen and Bathroom
- Institutional [size]
- Is safe for -or- will not harm most hard, nonporous surfaces
- Kitchen formula
- Made for kitchen surfaces and odors
- Multi-Surface
- No mixing
- No Unpleasant Odors
- Non-abrasive formula [will not scratch surfaces]
- Non-Chlorine Formula: Will not bleach clothing or colored surfaces
- Prevents [odors]
- Professional size
- Safe for Special -or- Premium Surfaces

DEODORIZATION

To deodorize: Spray on precleaned surfaces as needed.

Claims:

- Deodorizes -and/or- disinfects -or- helps deodorize
- Deodorizer [for Institutional Use]
- Deodorizes food odors [like garlic and onion] [left behind on kitchen surfaces] [after cooking]
- Eliminates mold odor[s]
- Eliminates odors caused by bacteria [and non-fresh foods]
- Eliminates -or- reduces [kitchen] odors [in the trash can -or- recycling bin odors -or- smells] [caused by germs or bacteria]
- Eliminates pet odors caused by germs or bacteria
- Kills odor causing bacteria in the kitchen -or- bathroom
- Kills odor causing bacteria -or- germs
- Kills -or- eliminates bacteria that cause [bad] odors
- [This product] deodorizes areas that are hard to keep fresh smelling, in the [insert use sites from Tables 1-5]
- [This product] will deodorize hard, nonporous surfaces [including [insert surface(s) from Tables 1-5] [use site(s) from Tables 1-5]] [where obnoxious odors may develop]
- [This product] will deodorize surfaces in [insert site(s) from Tables 1-5]
- Removes -or- Eliminates odors

DYE & SCENT DESCRIPTORS AND CLAIMS:

- Contains no [dyes] [added colors]
- Dye-Free
- Free of Added -and/or- Dyes -and/or- Colors
- Free -or- clear of dyes
- Fresh scent formula
- Fresh Scented
- Has a fresh scent -or- fragrance -or- smell

MDLO

To control and prevent the growth of mold:

Spray precleaned surface until thoroughly wet. Surface must remain wet for 1 minute before wiping or air drying. Respray product as necessary for ongoing -or- continual control.

Claims:

- Controls [and] [prevents] mold growth
- Kills [and prevents the growth of] mold
- This product inhibits growth of mold

Organism:

1 minute contact time:

Trichophyton mentagrophytes [ATCC 9533]

R0803-

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DISINFECTION

To Disinfect: Spray 6 to 10 inches from precleaned surface for 3-4 seconds -or- until thoroughly wet. Surface must remain wet for 10 minutes.

Do not use on glasses, dishes, or utensils.

Claims:

- Antibacterial [spray] [action] [formula]
- An effective disinfectant for use in the kitchen, bathroom, bedroom, and other areas
- Antibacterial [Formula]
- Antibacterial Formula Disinfects
- Antibacterial -or- Germicidal [on hard, nonporous surfaces] [for Kitchens and Bathrooms]
- Antibacterial -or- Germicidal [Formula]
- Antimicrobial
- Bactericidal
- [Bathroom] [Restroom] [Kitchen] disinfectant
- Broad Spectrum Hospital Disinfectant
- Disinfects & [and] Deodorizes
- Disinfectant
- Disinfectant [for Institutional Use]
- Disinfecting formula
- Disinfecting spray
- Disinfect[s]
- Disinfects [Germs]
- Disinfects [washable] kitchen surfaces including killing [99.9% of] germs -and/or- bacteria -and/or- viruses -and/or- fungi
- Easily disinfect
- For [Hospital] [Commercial] [Industrial] & Institutional Use [Only]
- For Healthcare Use
- For Hospital Use
- Fungicidal -or- Antifungal
- Germicidal
- Hospital disinfectant
- Hospital grade disinfectant
- Kills 99.9% of Bacteria
- Kills [99.9% of] Germs
- Kills [99.9% of] [kitchen] [bathroom] bacteria
- Kills [99.9% of] see organism list
- Kills Avian Influenza**
- Kills bacteria -or- germs -or- viruses on washable kitchen -and/or- bathroom surfaces and fixtures
- Kills bacteria -or- viruses
- Kills Flu Virus[t] [Influenza A]
- Kills [household] bacteria [without bleaching]
- Kills Influenza A virus [, the virus that causes the common flu]
- Kills [Salmonella enterica] [kitchen bacteria]
- Leaves hard, nonporous surfaces sanitary -or- disinfected in 10 minutes
- Multi-purpose disinfectant [spray]

- Provides broad spectrum kill of Gram negative and Gram positive micro-organisms
- Pseudomonacidal
- Ready to use disinfectant
- Ready to use formula provides disinfecting and deodorizing
- Spray
- Staphylocidal
- Streptocidal
- [This product] deodorizes and disinfects hard, nonporous surfaces -or- list any use sites: Tables 1-5
- [This product] is a no rinse disinfectant that disinfects, and deodorizes in one labor saving step
- This product is a Broad Spectrum disinfectant, bactericidal according to the AOAC Germicidal Spray Products test method
- This product is effective against the pathogenic fungi Trichophyton mentagrophytes (Athlete's Foot Fungus) when used as directed for disinfection with a contact time of 1 minute on hard, nonporous surfaces in bathrooms, including shower stalls, floors, and glazed bathroom tiles
- [This product] kills 99.9% of bacteria & viruses
- [This product] kills bacteria, viruses and mold
- [This product] kills germs throughout the kitchen -or- restaurant -or- establishment -or- building on hard, nonporous surfaces plus controls mold growth
- This product meets AOAC Germicidal Spray Product Test efficacy standards for hospital disinfectants
- [This product] will disinfect hard, nonporous surfaces [insert surface(s) from Tables 1-5] [use site(s) from Tables 1-5]
- Use [this product] to disinfect nonporous [insert use sites/surfaces from Tables 1-5]. [Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (120°), and allow to air dry.
- Virucidal -or- Antiviral
- [Virucidal] [Bactericidal] [Pseudomonacidal] [Fungicidal] [Deodorizer]

**Kills Avian Influenza virus on precleaned environmental surfaces

†Influenza A

Germicidal against the following [organisms]: -or- [This product] kills the following [organisms]: -or- Disinfects against the following [organisms] -and/or- Fungicidal -and/or- Virucidal:

Organisms:

See organism list

R0803-1

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DISINFECTION continued**Organisms:**

[This product] kills germs: -or- Kills -or- Disinfects against the following bacteria, viruses, mold:

ORGANISMS:**Bacteria:****3 minute contact time:**

Acinetobacter baumannii	[ATCC 15308]
Community-associated Methicillin resistant Staphylococcus aureus, (CA-MRSA Genotype 300)	[Genotype 300] [ATCC 35150]
Escherichia coli O157:H7	[ATCC BAA-196]
ESBL (Extended Spectrum Beta Lactamase) producing Escherichia coli (ESBL producing E. coli)	[Genotype USA 100 NARSA NRS382]
Hospital-associated Methicillin resistant Staphylococcus aureus, (HA-MRSA 100)	[Genotype USA 200 NARSA NRS383]
Hospital-associated Methicillin resistant Staphylococcus aureus, (HA-MRSA 200)	[ATCC 33591]
Methicillin-resistant Staphylococcus aureus	[ATCC 15442]
Pseudomonas aeruginosa	[ATCC 10708]
Salmonella enterica	[ATCC 6538]
Staphylococcus aureus	[ATCC 51299]
Vancomycin-resistant Enterococcus faecalis (VRE)	

Fungus:**1 minute contact time:**

Trichophyton mentagrophytes	[ATCC 9533]
-----------------------------	-------------

Viruses (non-enveloped):**30 second contact time:**

Rhinovirus 39	[ATCC VR-340]
---------------	---------------

10 minute contact time:

Poliovirus [type 1] [Polio]	[ATCC VR-1562]
-----------------------------	----------------

Viruses (enveloped):**30 second contact time:**

Avian Influenza	[H5N1 NIBRG-14]
Bovine viral diarrhea virus (human Hepatitis C virus surrogate)	[A/PR/8/34 (H1N1)]
Human Influenza A virus	
Respiratory syncytial virus [cause of respiratory infections in infants] [(leading cause of lower respiratory infection in children)]	[ATCC VR-26]

Environmental Text:

[Important Facts about this product:]

- ◆ This can is made from an average of 25% recycled steel (10% post-consumer)

- ◆ Encourage your local authorities to establish a program to recycle this can
- ◆ Recyclable

R0803-1

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TABLE 1 Medical:**USE SITES**

Ambulances -or- [Emergency Medical] Transport Vehicles
Anesthesia Rooms -or- Areas
[Assisted Living -or- Full Care] Nursing Homes
CAT Laboratories
Central Service Areas
Central Supply Rooms -or- Areas
Critical Care Units -or- CCUs
Doctor's Offices
Donation Centers [blood] [plasma] [semen] [milk] [apheresis]
Emergency Rooms -or- ERs
Eye Surgical Centers
Health Care Settings -or- Facilities
Home Health Care [Settings]
Hospices

Hospitals
[Hospital] Kitchens
Intensive Care Units -or- ICU(s) [areas]
Laboratories
Laundry Rooms
Long Term Care Facilities
[Medical] Clinics [Facilities]
Medical Facilities
Medical -or- Physician's -or- Doctor's Offices
Newborn -or- Neonatal [Nurseries] [Intensive Care] Units [NICU]
Nursing Homes
Nursing -or- Nurses' Stations
Operating Rooms
Ophthalmic Offices
Orthopedics
Outpatient [Surgical Centers (OPSC)] [Clinics] [Facilities]

Patient Areas
Patient Restrooms
Patient Rooms
[Pediatric] Examination Rooms -or- Areas
Pediatric Intensive Care Units [PICU]
Pharmacies
Physicians' Offices
Physical Therapy Rooms -or- Areas
Psychiatric Facilities
Public Areas
Radiology -or- X-Ray Rooms -or- Areas
Recovery Rooms
Rehabilitation Centers
Surgery Rooms -or- Operating Rooms -or- ORs
Waiting Rooms -or- Waiting Areas

SURFACES

anesthesia machines
apheresis machines
autoclaves
bathroom doorknob
bedpans
bedpan cleaner
bedrails
[bedside] commodes
bedside tables
blood pressure cuffs
blood pressure (BP) monitors
cabinets
call boxes
CAT -or- Computerized Axial Tomography equipment
carts
chairs
charging stations
computer peripherals
computer screens
computer tables
cords
counters
[crash] [emergency] carts
diagnostic equipment
docking stations

edges of privacy curtains
[exam -or- examination] tables
external surfaces of [medical] equipment -or- [medical] equipment surfaces
[external] [surfaces of] ultrasound transducers [-and/or- probes]
gurneys
hard, nonporous hospital -or- medical surfaces
[hospital -or- patient] bed(s) [springs] [railings] -or- linings -or- frames
IV [stands] [pumps] [poles]
keyboards
large surfaces
loupes
mammography equipment
medication carts
mobile workstations
mouse pads
MRI -or- Magnetic Resonance Imaging equipment
operating room tables and lights
operating room light switches
overbed tables
paddles
patient chairs
plastic -or- vinyl mattress covers
patient monitoring equipment

patient support and delivery equipment
phlebotomy trays
physical therapy (pt) equipment surfaces
pulse oximeters
PVC tubing
reception counters -or- desks -or- areas
remote controls
respiratory therapy equipment
scales
sequential compression devices
side rails
slit lamps
small surfaces
spine backboards
stethoscopes
stools
stretchers
surfaces in and around toilets in patient rooms
toilet handholds
traction devices
walls [around toilet] [in patient rooms]
wash basins
wheelchairs
x-ray equipment

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

PERSONAL PROTECTIVE SAFETY EQUIPMENT

face shields
goggles
hard hats

protective headgear
silicone rubber -or- PVC hearing protectors

spectacles
vinyl covered earmuffs

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Use on non-critical surfaces in:**USE SITES**

Dental Offices
Examination Rooms
Dental Operatories
Dental -or- Dentists' Offices

TABLE 2 Dental:**SURFACES**

amalgamators -and/or- dental curing lights
dental countertops
dental operatory surfaces
dentists' -or- dental chairs

endodontic equipment such as apex locators
hard, nonporous [environmental] dental surfaces
light lens covers
pulp testers and motors
reception counters -or- desks -or- areas

TABLE 3 Veterinary and Farm:**USE SITES**

Animal Life Science Laboratories
Animal [Pet] Housing [Kennels] [Facilities]
Animal Holding Areas
[Animal -or- Pet] Grooming Facilities
Animal Transportation Vehicles
Breeding Establishments
Equine Farms

Farms
Kennels
Livestock -and/or- Swine -and/or- Poultry Facilities
Pet [Areas] [Quarters]
Pet Shops -or- Stores
Small Animal Facilities
Tack Shops

Veterinary Clinics -or- Facilities
Veterinary -or- Animal Hospitals
Veterinary [Offices] [Waiting Rooms]
Veterinary [Examination Rooms]
Veterinary [X-ray Rooms]
Veterinary [Operating Rooms]
Zoos

For Medical Device Use Surfaces

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

SURFACES

animal equipment
around troughs
automatic feeder exteriors
empty cages
external surfaces of [veterinary] equipment

feed rack exteriors
fountains
hard, nonporous [environmental] veterinary surfaces
pens

reception counters -or- desks -or- areas
stalls
veterinary care surfaces
watering appliance exteriors

TABLE 4 Food Service:**USE SITES**

Banquet Halls
Bars
Cafeterias
Catering Facilities
Commercial -or- Institutional Kitchens

Delis [Delicatessens]
Fast Food Chains -or- Restaurants
Food Preparation and Processing Areas
Food [Service -or- Processing] Establishments
Food Serving Areas

Other Food Service Establishments
Restaurants
School Kitchens

SURFACES

any washable (food and non-food contact) surface
where disinfection is required
appliances
dish racks
drain boards
food cases
food trays
freezers

hoods
microwave[s] [exteriors]
oven[s] [exteriors]
plastic -or- metal outdoor furniture
(excluding wood frames and upholstery)
refrigerator[s] [exteriors]
salad bar sneeze guards
stoves -or- stovetops

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Note: **Bold, Italicized text is information for the reader and is not part of the label.** [Bracketed information is optional text.]
Text separated by a diamond bullet (◆) denotes -and/or- options. Underlined text is new. Strike-through (~~text~~) means removed

TABLE 5 Miscellaneous/General:

USE SITES

Airplanes [Airports]
Ambulances
Athletic [Recreational] Facilities
Automobiles
Barber Shops
Basements
Bathrooms
Bathroom -or- Locker Room
Facilities
Beauty Salons
Bedrooms
Blood Banks
Boats
Bowling Alleys
Buses
Butcher Shops
Cafeterias
Campers
Cars
Churches
Colleges
Convenience Stores
Correctional Facilities
[Damp] Storage Areas
Day Care Centers
Dens
Dorms
Dormitories
Elevators
Emergency Vehicles
Factories
Fast Food Restaurants
[Food Processing] Plants
Funeral Homes
Garages
[Garbage] [Waste] Storage Areas

Gas Stations
Grocery Stores
Gymnasiums -or- Gyms
Health Club[s] [Facilities]
Homes
Home Centers
Hotels
Industrial Facilities
Institutional Kitchens
[Institutional] Laundromats
Institutions
Kennels
Kitchen[s] [surfaces]
Laboratories
Laundromats
Laundry Rooms
Lavatories
Locker Rooms
Lodging Establishment
Lounges
Malls
[Manufacturing] Plants
Manufacturing Plants -or- Facilities
Markets
Mass Merchandisers, Discount Retailers
-and/or- General Merchandise Stores
Military Installations
Mobile Homes
Mortuaries
Motels
Motor Homes
Mudrooms
Nurseries
Office[s] [Buildings]
Pet Areas
Pharmacies

Play Areas -or- Rooms
Playgrounds
[Police -and/or- Fire] Vehicles
Produce Areas
Public Areas
Public Facilities
Public Restrooms
Public Telephone[s] [Booths]
Recreational Centers -or- Facilities
Rental Cars
Rest Stops
Restaurants
Restrooms -or- Restroom Areas
Retail businesses
School Buses
Schools
Shelters
Ships
Shopping Centers
Shops
Shower Rooms
Sports Arenas
Storage Rooms -or- Areas
Subways
Supermarkets
Toolsheds
Transportation Terminals
Trains
Trolleys
Universities
Vacation Homes
Warehouse Clubs

A potable water rinse is required for food contact surfaces.
Do not use on glassware, utensils, or dishes.

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TABLE 5 Miscellaneous/General: continued

SURFACES

appliance exterior[s] [surfaces]	elevator buttons	linoleum	sports equipment
appliance -or- cabinet knobs	enamel	lockers	stainless steel
bassinets	exercise machines	[medicine] cabinets	stall doors
[bathroom] fixtures	exhaust fans	metal	staplers
[bathroom] [kitchen] faucet[s]	exterior -or- external toilet surfaces	metal blinds	stovetops -or- stoves
[handles]	exterior -or- external urinal surfaces	metal work benches	synthetic marble
[bath]tubs	exterior surfaces of	microwave exterior	tables [tabletops]
bed frames	urinals -and/or- toilets	office machinery	[tiled] walls
behind and under counters	faucets	office -or- bedroom -or-	tires
behind and under sinks	fax machine[s] [handles]	bedside furniture	[toilet [flush]] [telephone] [cabinet]
boats	fiberglass	other telecommunication	[dishwasher] [door] handles
booster chairs	[filing] [medicine] cabinets	equipment surfaces	toilet -and/or- urinal exterior[s]
burner trays	finished hardwood	outdoor grill exteriors	[surfaces] -or- exterior toilet
cabinets	finished -or- painted woodwork	outdoor -or- patio furniture	surfaces toilet[s] [handle] [rims]
car interiors	finished windowsills	oven doors	[seats] [tops]
carts	fixtures	pet areas -or- surfaces	tools
ceilings	floors [around toilets]	phones	towel dispensers
chairs	furniture	plastic laundry hampers -or- baskets	toy boxes -or- storage bins
[children's] furniture	freezer exteriors	plastic patio furniture	trailers
closets	garage surfaces	-or- lawn chairs	[training] toilets
[clothes] [diaper] hampers	garbage -or- trash cans	plastic shower curtains	trash cans -or- compactors
[computer] keyboards	glazed ceramic [restroom surfaces]	plastic surfaces associated with:	tray tables
cooler exteriors	glazed [ceramic] tile[s]	floors, walls, fixtures, toilets,	tubs
counters -or- countertops	glazed porcelain [tiling -or- tile]	urinals, sinks, shower rooms	urinals
cupboards	[grocery [store] -or- supermarket]	and locker rooms	vanity tops -or- vanities
cribs	carts	playground equipment	vehicles
crystal [non-food contact areas]	[grocery [store] -or- supermarket]	playpens	vending machine surfaces
desk[s] [tops]	cart handles	portable toilet exteriors	[vinyl] linoleum -or- wallpaper
[diaper -or- infant] changing [tables]	[grocery [store] -or- supermarket]	[public -or- pay] telephones	walkers
-or- areas [stations]	cart child seats	-or- phone booths	walls
diaper pails	gym[nastic] equipment	range hoods	[washable] floors [including
dictating equipment [surfaces]	hampers	recycling bins	linoleum, no-wax, vinyl, and
[dining] [fast food] [kitchen] [picnic]	[hand]railings -or- rails	refrigerator door handles	glazed ceramic tile]
[play] [restaurant] [tray] tables	[hard] plastic -or- vinyl	refrigerator exterior	washable kitchen surfaces
dining room surfaces -and/or- tables	headsets	RVs	[washable] walls
-and/or- fast food restaurant tables	high chairs [non-food contact	shelves [and drawers]	washers/dryers -or-
door[s] [handle[s]] [frame[s]]	areas]	shower[s] [area] [curtains]	washing machine exterior[s]
doorknobs	[kids'] play [structures]	[doors] [stalls] [walls]	wastebaskets
drain boards	[equipment] [furniture] [tables]	signs	whirlpool tubs
drawer pulls	[kitchen] appliance exteriors	sink[s] [basins]	window [blinds] [shades]
dressing carts	light fixtures -or- switches -or- panels	seats	windshields
			wrestling mats

SURFACE MATERIALS

[baked] enamel	glazed porcelain	synthetic marble	Not Recommended For Use On
chrome	laminated surfaces	tile	-or- Avoid Contact With:
[common] hard, nonporous	Marlite	vinyl [tile]	acrylic plastics
[household -or- environmental]	painted surfaces	similar hard, nonporous	natural marble
surfaces	plastic [laminated]	surfaces except for those	painted surfaces
fiberglass	plexiglass	excluded by the label	paper surfaces
Formica	porcelain enamel		[polished] wood
glazed ceramic [tile]	stainless steel		rubber
			unfinished wood

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